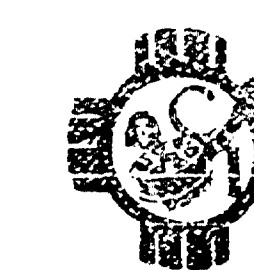
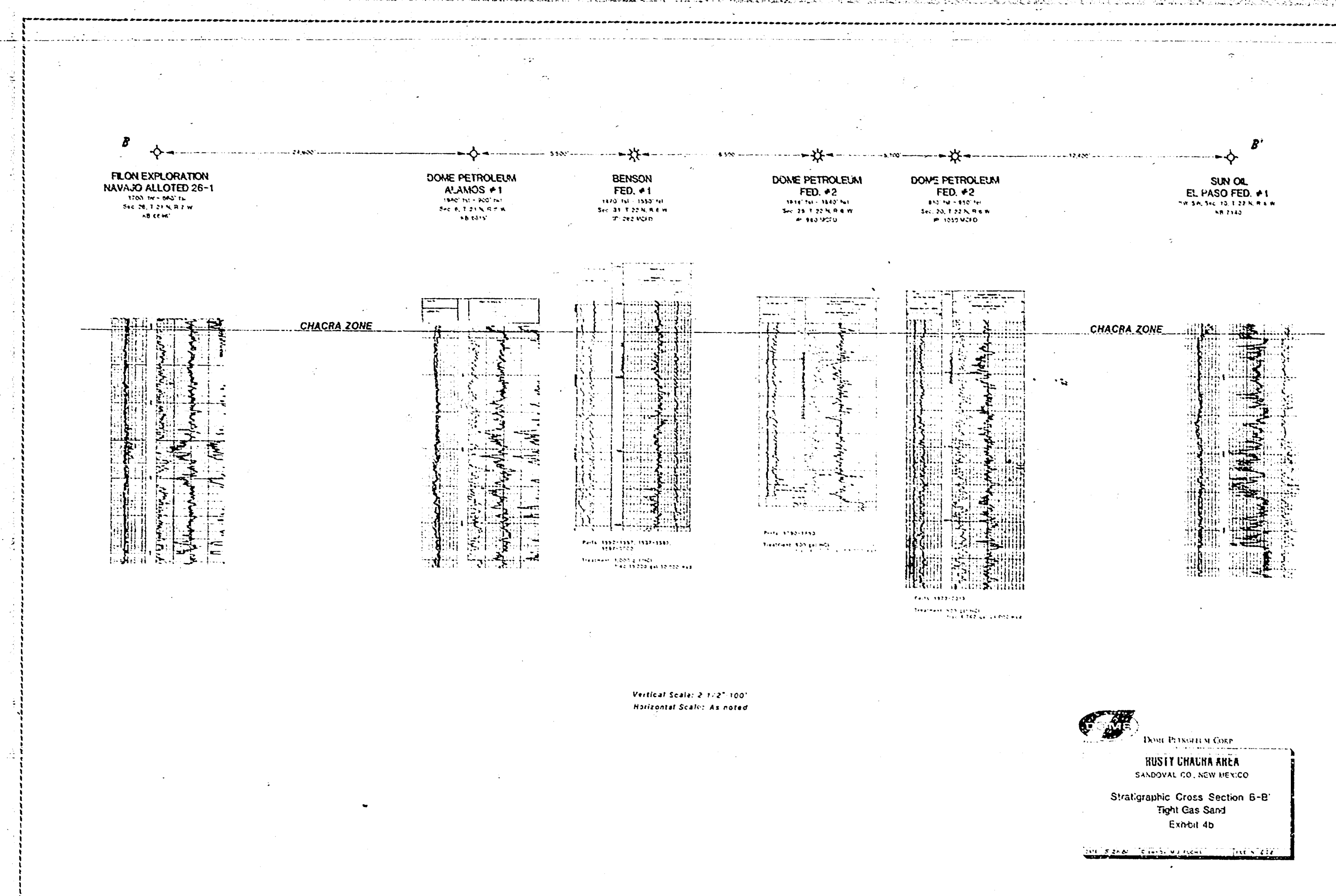


Case No.
7300

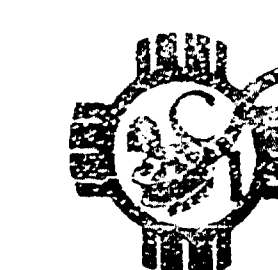
Large Exhibits



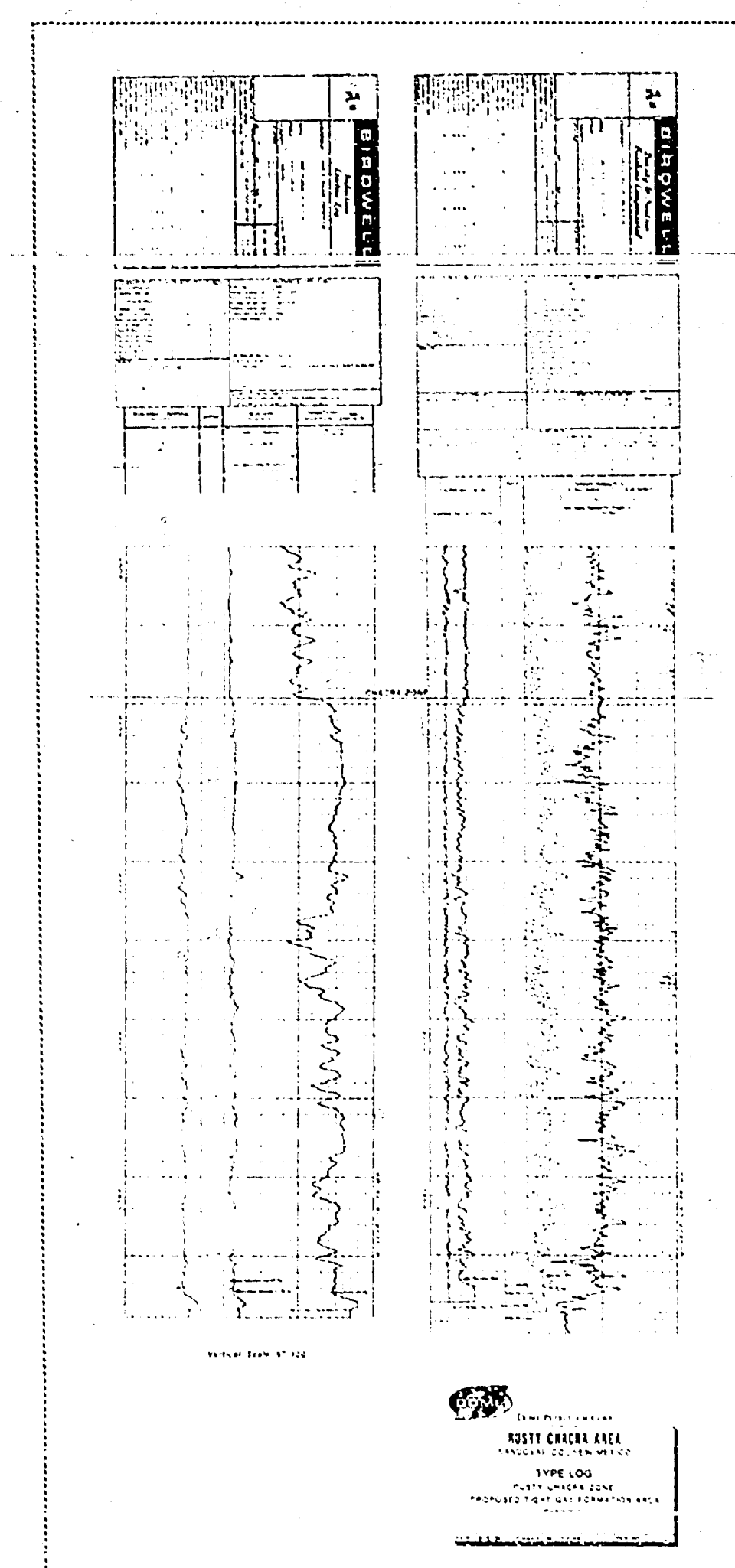
REPT. AVAILABLE COPY



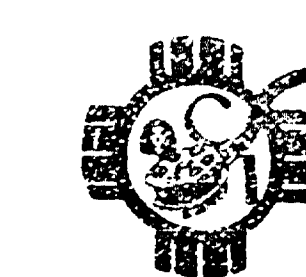
N.A.M.C. REPRODUCTION



POST AVAILABLE COPY



ALTERNATIVE



NOT AVAILABLE (S)

ENGINEERING SUMMARY
CHACRA FORMATION
RUSTY CHACRA AREA

Exhibits 6 through 12 will help illustrate that the Chacra sandstone meets the requirements to qualify for tight gas formation incentive pricing. The exhibits will show: (1) the average in-situ permeability is less than 0.10 md; (2) the average pre-stimulation stabilized flow rate is less than 18 CFR 271.705 guidelines; (3) oil production is less than 5 BOPD; and (4) any fresh water zones are protected from contamination.

EXHIBIT NO. 6 - Summary of Reservoir Data

This table shows typical reservoir data for the Chacra sandstone within the application area. This information shows that the criteria for permeability, unstimulated flow rate, and crude oil production are all met. The average depth to the top of the Chacra formation of 1659' is derived from the data presented in exhibit 7. The calculation of the average permeability of 0.07 md is detailed in exhibits 8, 9, and 10 while the average unstimulated rate of gas to small to measure is derived from exhibit 11.

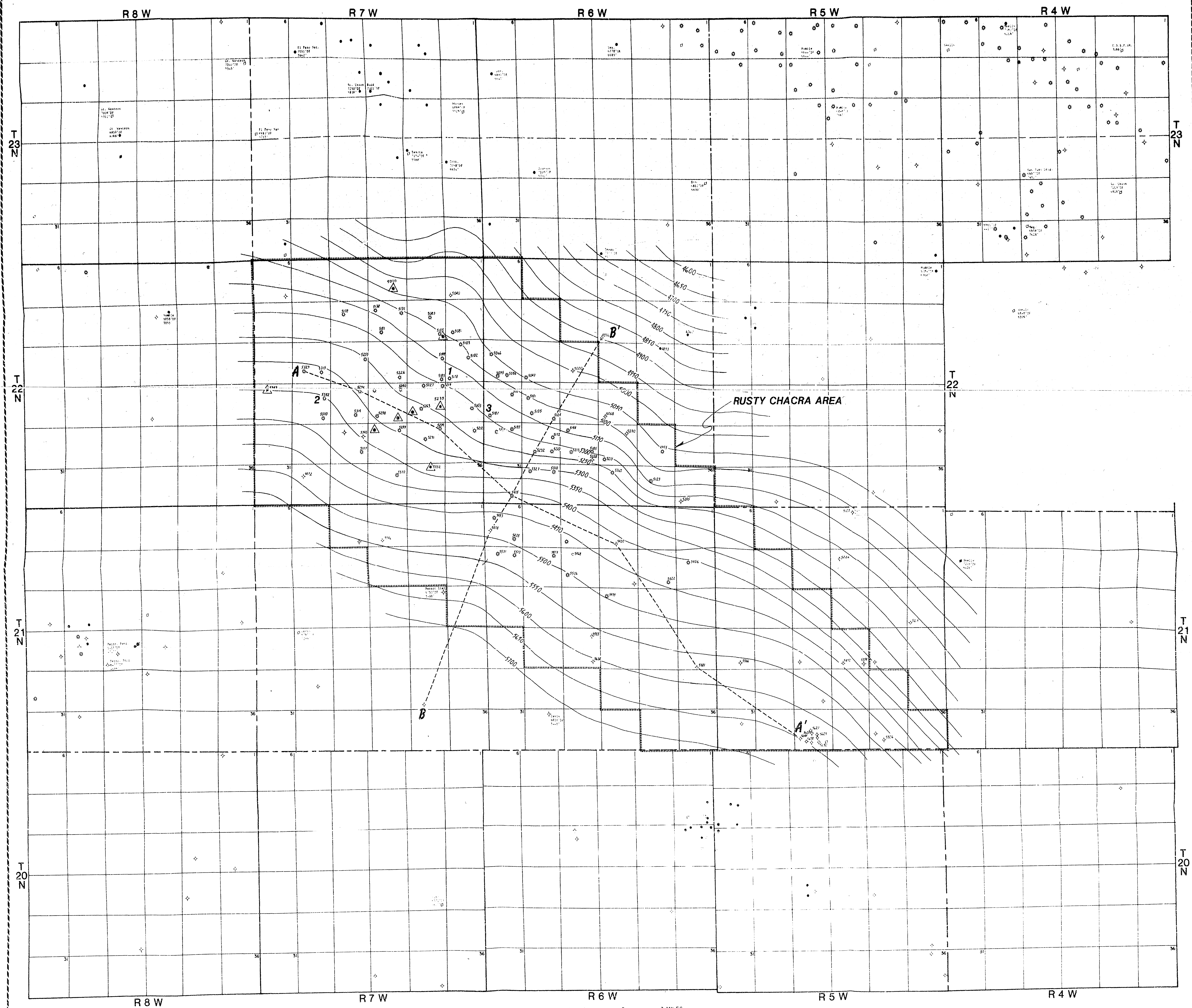
EXHIBIT 7 - Summary of Pertinent Data by Well

These tables show all of the Chacra sandstone wells within the application area. Averages of the depth to the top of the Chacra as well as the average three hour potential test after fracture stimulation were shown in exhibit 6. The tables also give well locations, completion interval, spud date and current well status. As shown, most of the wells in this area are shut-in gas wells which are waiting on pipeline connections.

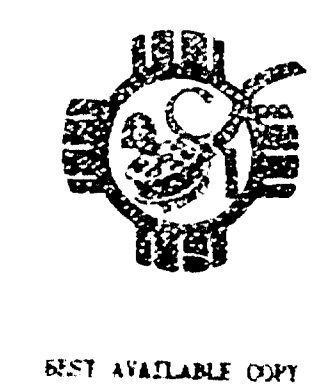
U.S. GEOLOGICAL SURVEY
WASHINGTON, D.C. 20508

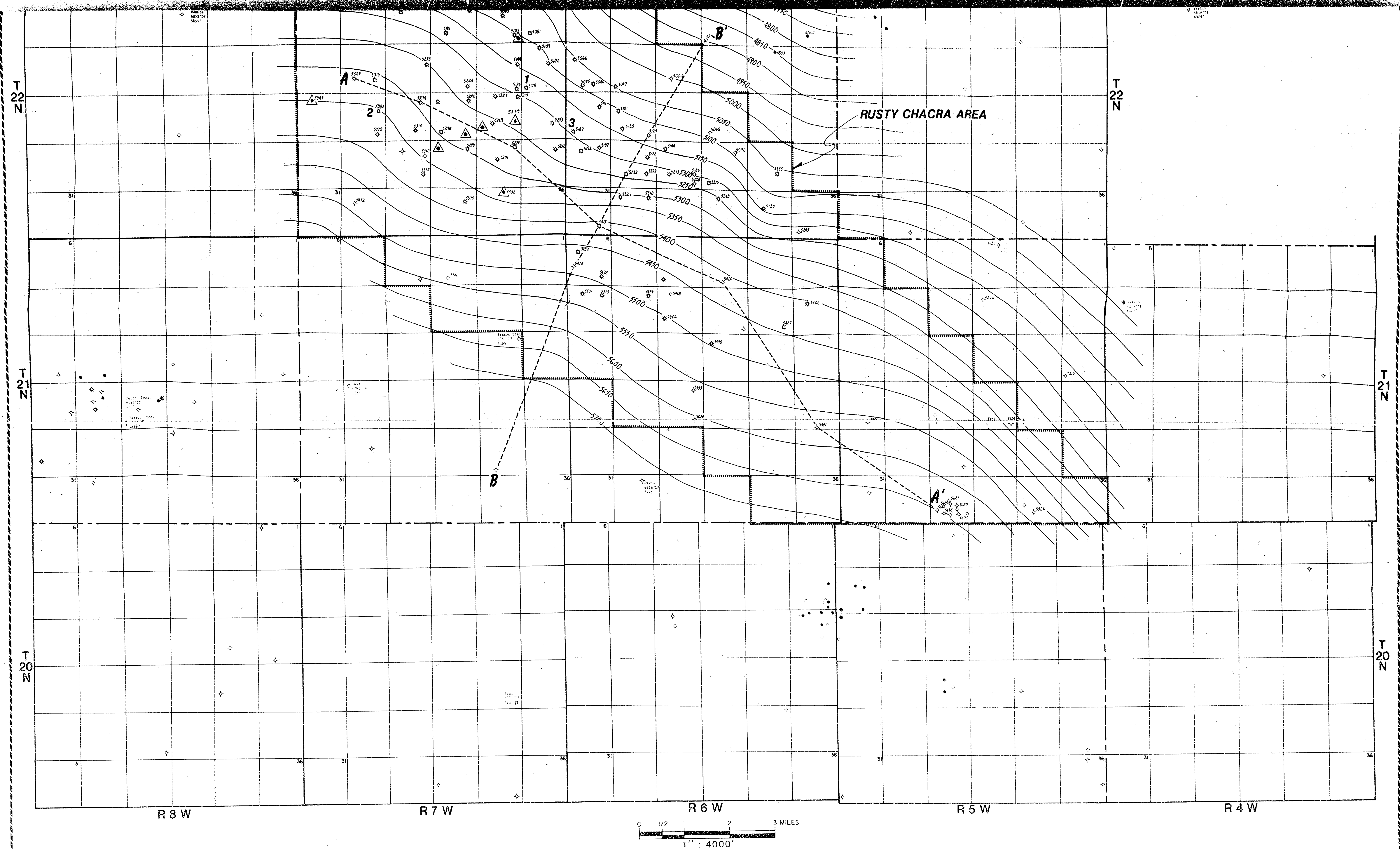


BEST AVAILABLE COPY



LEGEND



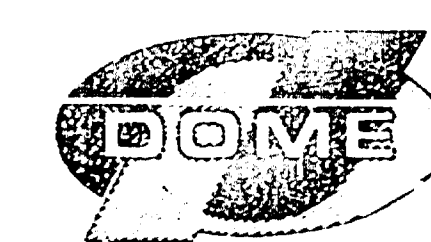


LEGEND

 GALLUP PRODUCER

WELLS WITH EXTENDED PRESSURE BUILDUP

- 1 CHASE RUSTY FEDERAL #4
- 2 DOME NAVAJO 20-22-7 #1
- 3 DOME FEDERAL 19-22-6 #1



DOME PETROLEUM CORP.

RUSTY CHACRA AREA

SANDOVAL CO., NEW MEXICO

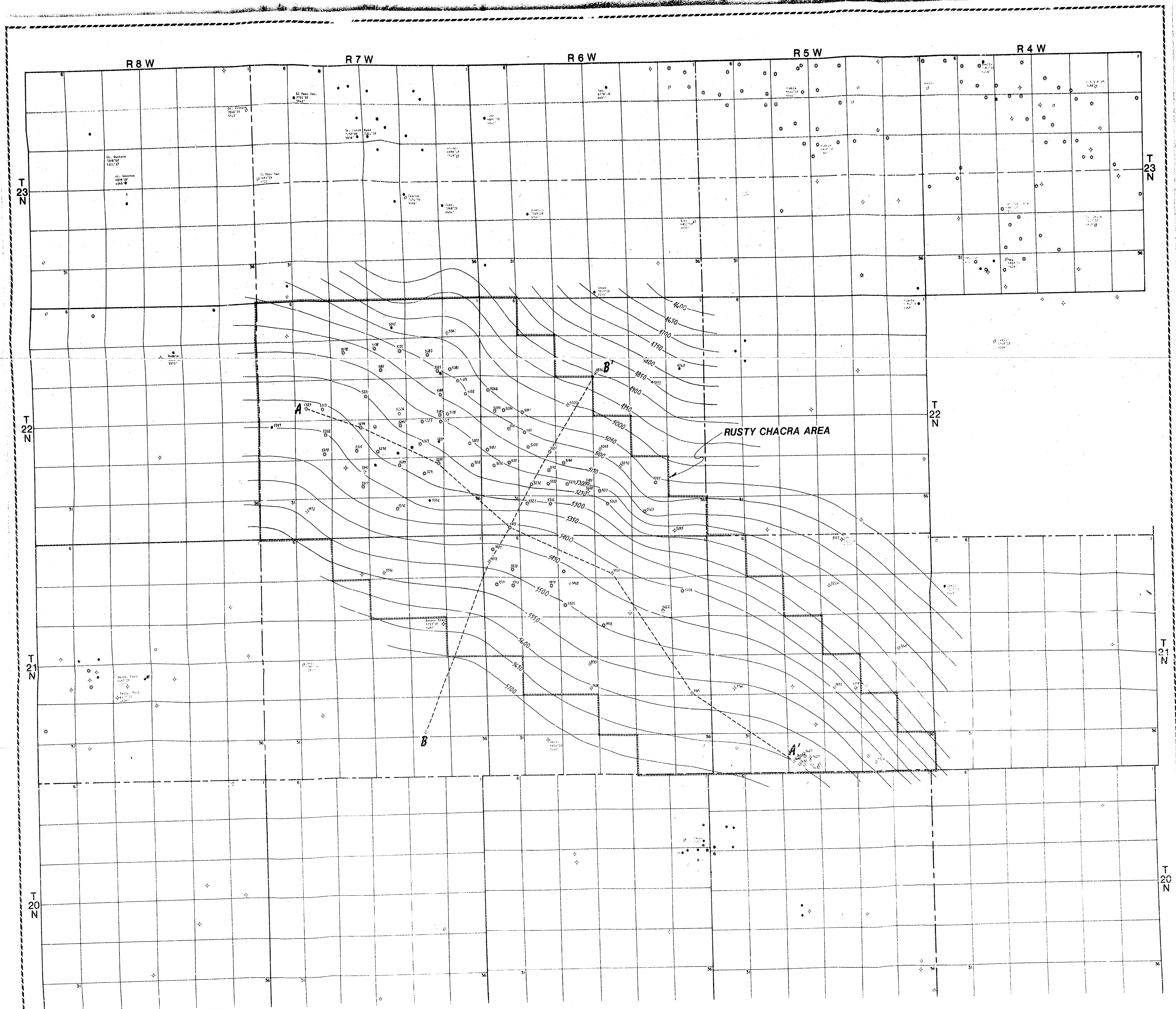
Structure Contours on Top "Chakra" Zone
Proposed Tight Gas Formation Area

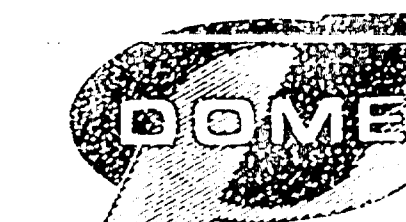
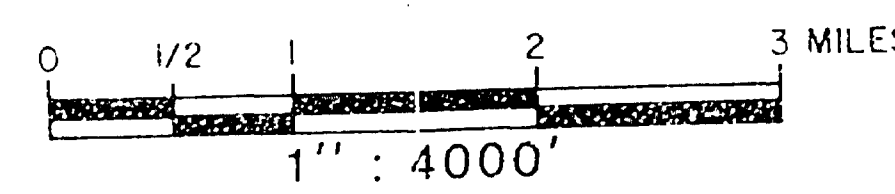
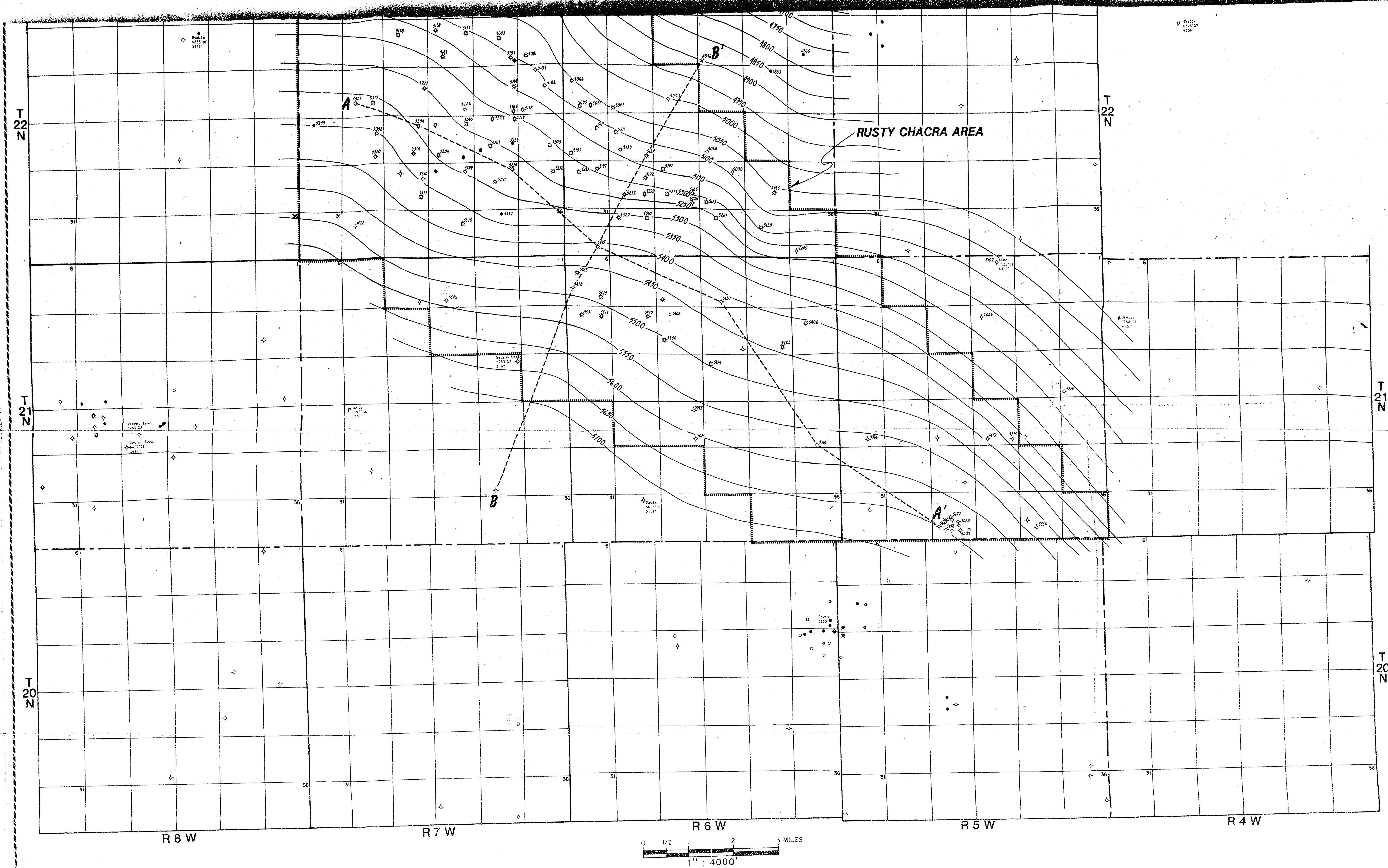
Exhibit #2

DATE 7/81 GEOLOGY BY M.J.FUCHS FILE NO J.9.1



NOT AVAILABLE 10/11





DOME PETROLEUM CORP.

RUSTY CHACRA AREA

SANDOVAL CO., NEW MEXICO

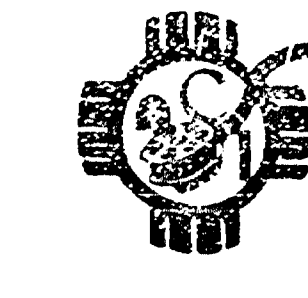
Structure Contours on Top "Chacra" Zone

Proposed Tight Gas Formation Area

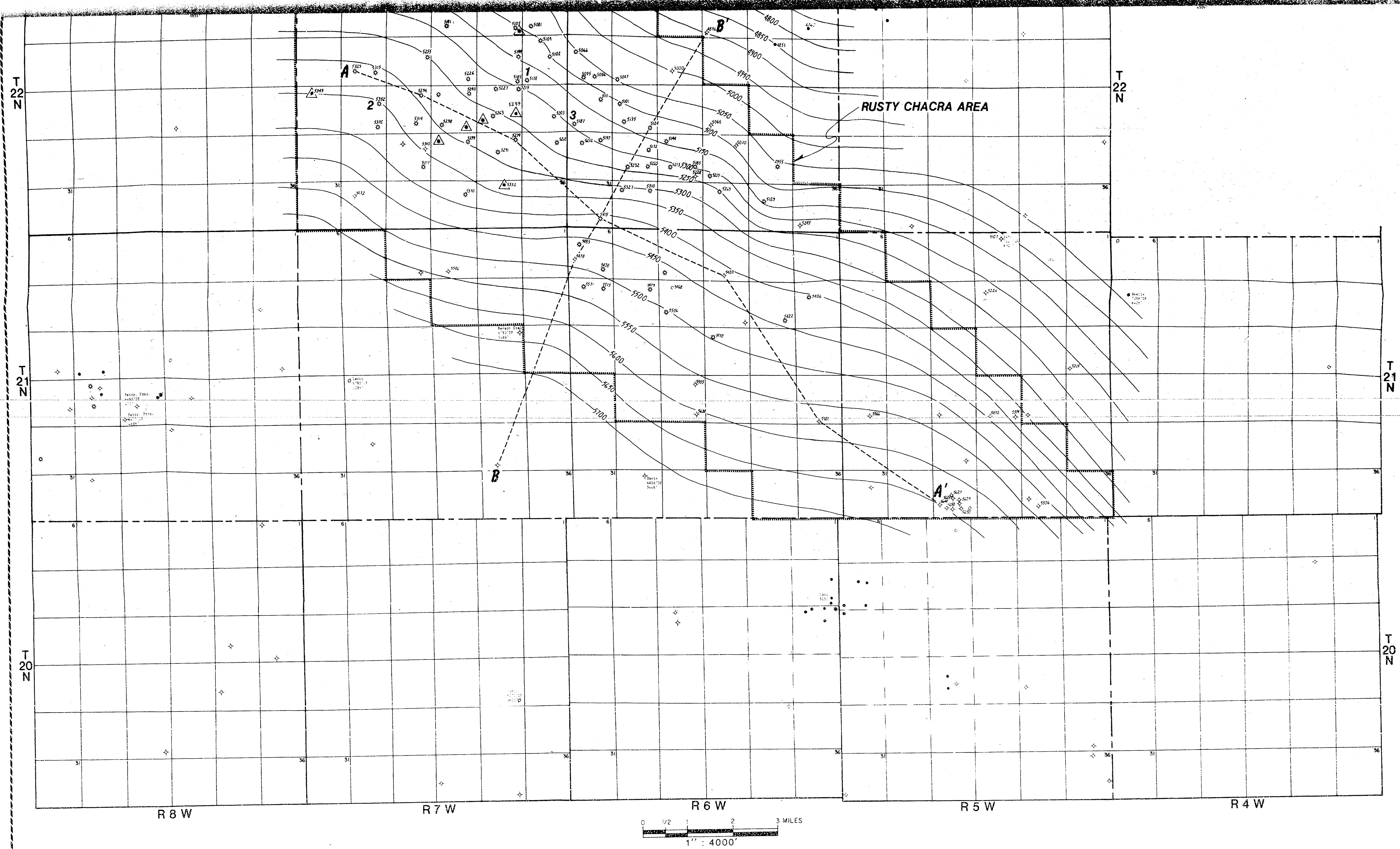
Exhibit #2

DATE 5-21-87 GEOLOGY BY M.J. FUCHS FILE NO. 0-7-3

BEFORE EXAMINER STAMETS
OIL CONSERVATION DIVISION
EXHIBIT NO. 2
CASE NO. 7300
Submitted by DOME
Hearing Date July 2, 1987



NOT AVAILABLE COPY



LEGEND

△ GALLUP PRODUCER

WELLS WITH EXTENDED PRESSURE BUILDUP

- 1 CHASE RUSTY FEDERAL #4
- 2 DOME NAVAJO 20-22-7 #1
- 3 DOME FEDERAL 19-22-6 #1



DOME PETROLEUM CORP.

RUSTY CHACRA AREA

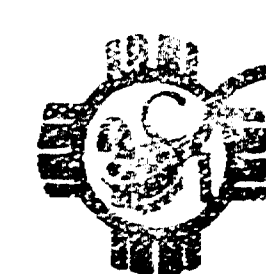
SANDOVAL CO., NEW MEXICO

Structure Contours on Top "Chacra" Zone

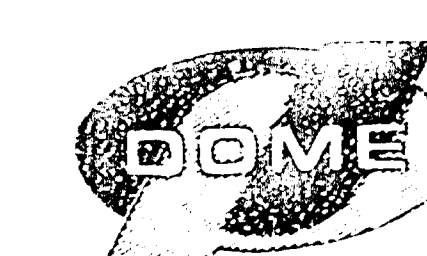
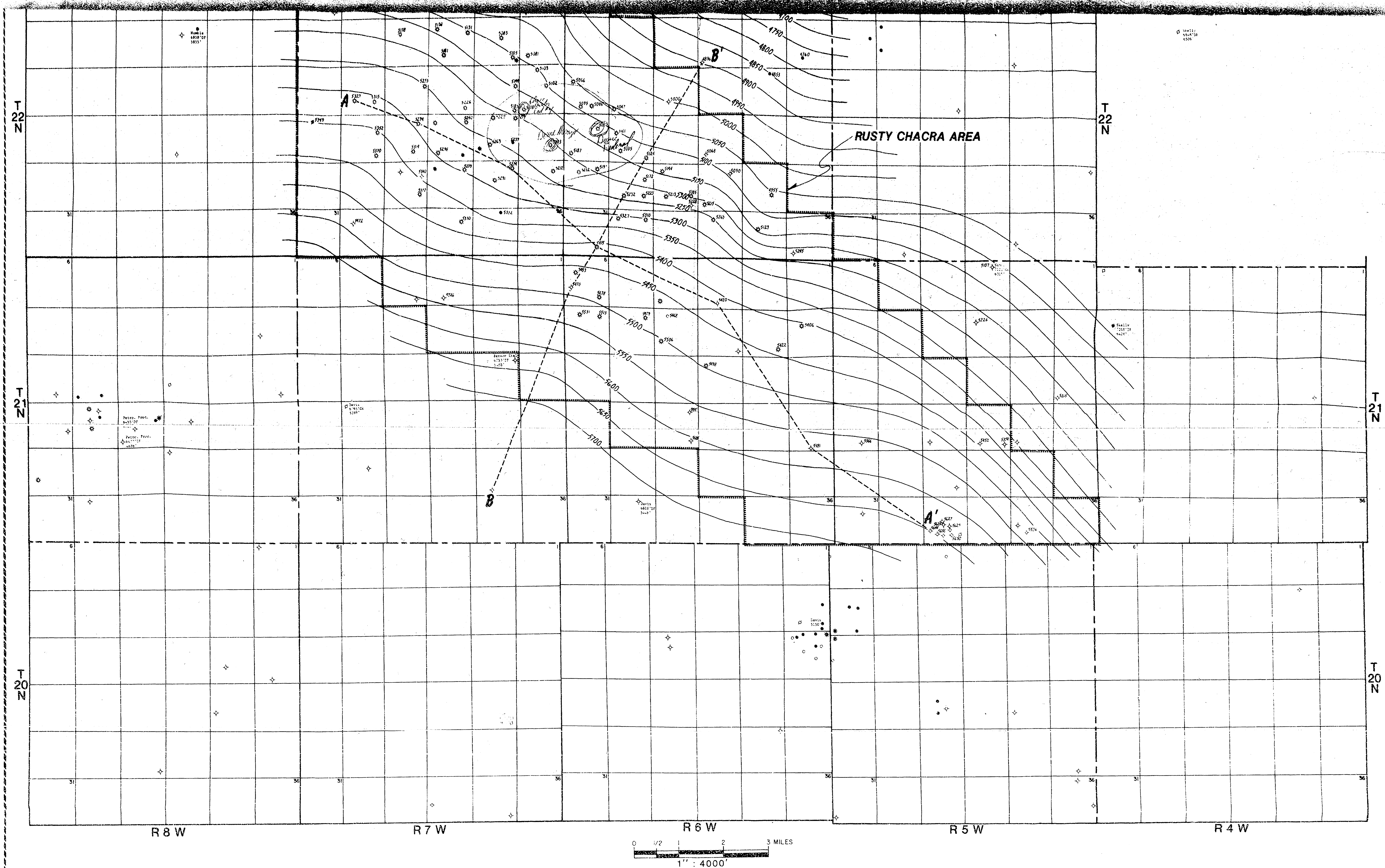
Proposed Tight Gas Formation Area

Exhibit #2

DATE 7/81 GEOLOGY BY M.J. FUCHS FILE NO. 001



BEST AVAILABLE COPY



DOME PETROLEUM CORP.
DENVER, COLORADO

RUSTY CHACRA AREA

SANDOVAL CO., NEW MEXICO

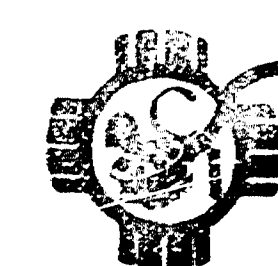
Structure Contours on Top "Chacra" Zone
Proposed Tight Gas Formation Area

Exhibit #2

DATE 5-2-81

GEOLOGY BY: M.J. FUCHS

FILE NO 07-3



NOT AVAILABLE COPY

A



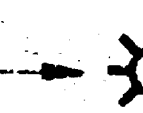
8,200'



11,800'



13,300'



**DOME PETROLEUM
NAV. 17-22-7 #2**

1820' fsl 1570' fwl
Sec. 17, T 22 N, R 7 W
IP: 133 MCFD

**BENSON
NAV. 21 #1**

N/NE
Sec. 21, T 22 N, R 7 W
IP: 470 MCFD

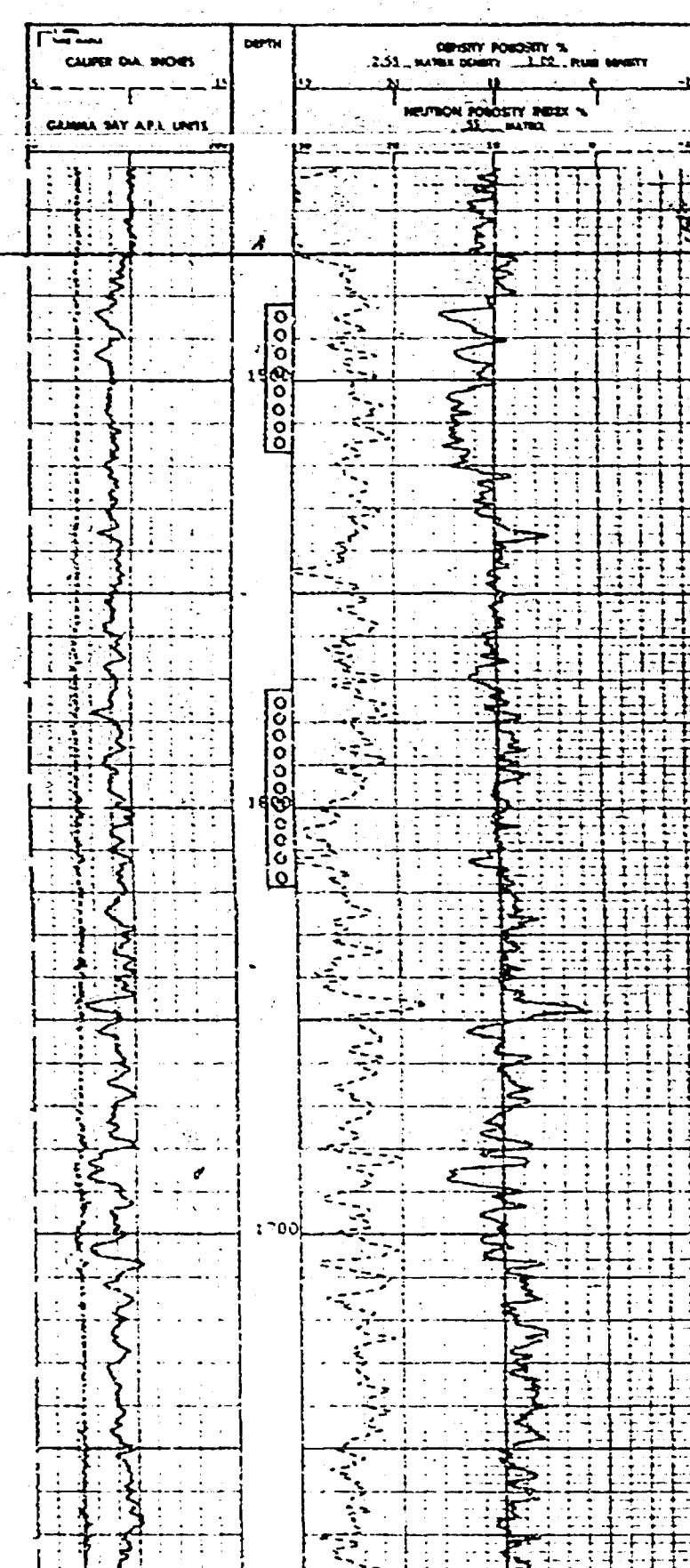
**BENSON
FED. 26-22-7 #1**

790' fsl, 790' fwl
Sec. 26, T 22 N, R 7 W
IP: 544 MCFD

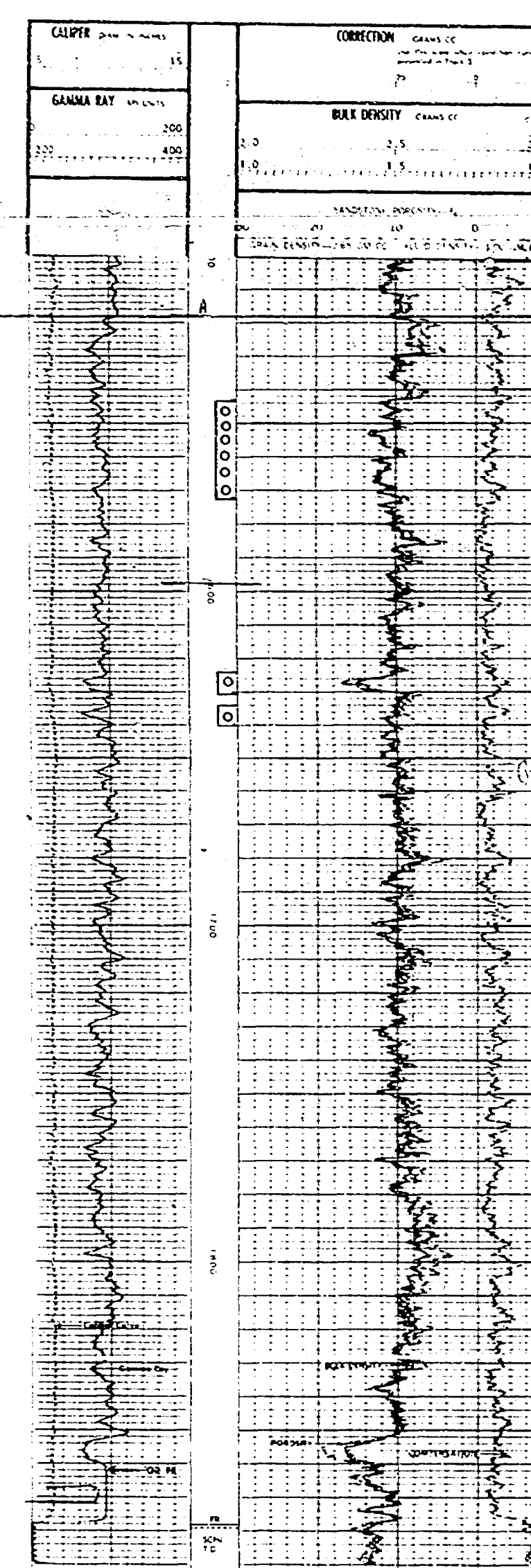
**BENSON
FED. 31-22-6**

1470' fsl, 1551' fwl
Sec. 31, T 22 N, R 7 W
IP: 262 MCFD

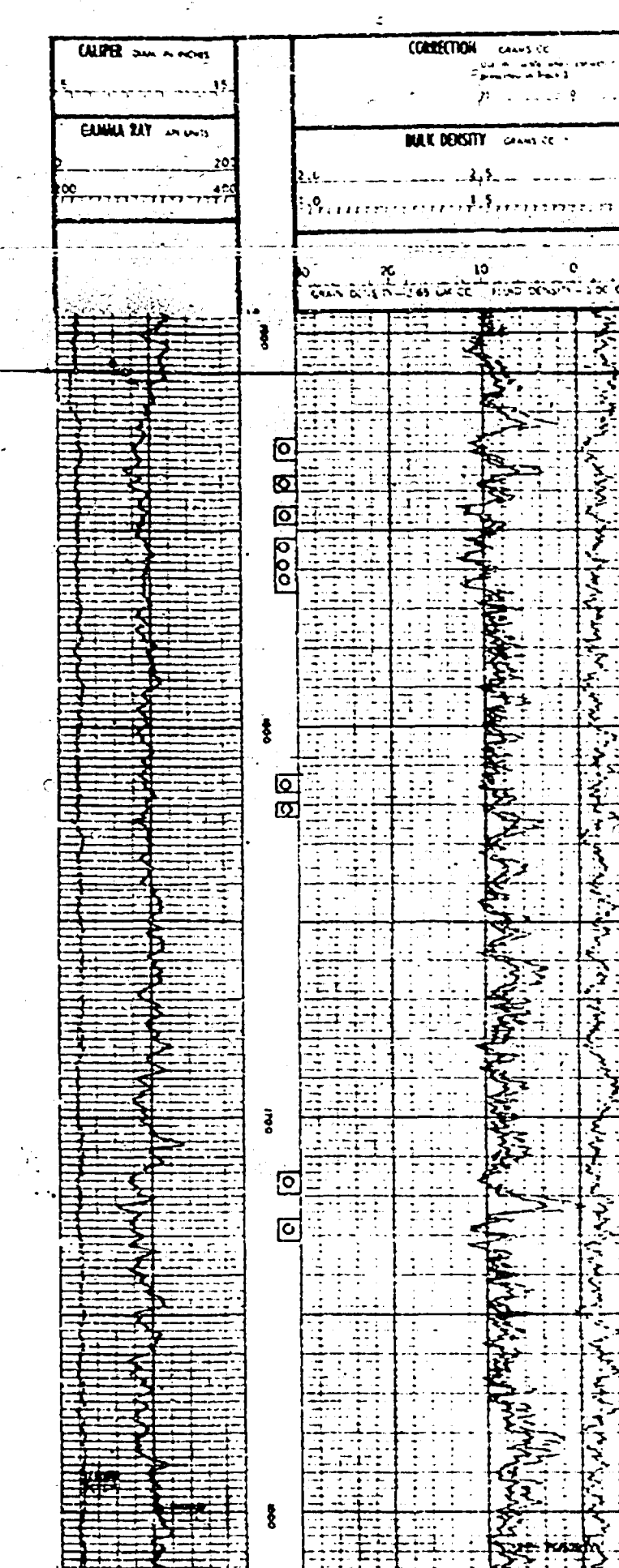
CHACRA ZONE



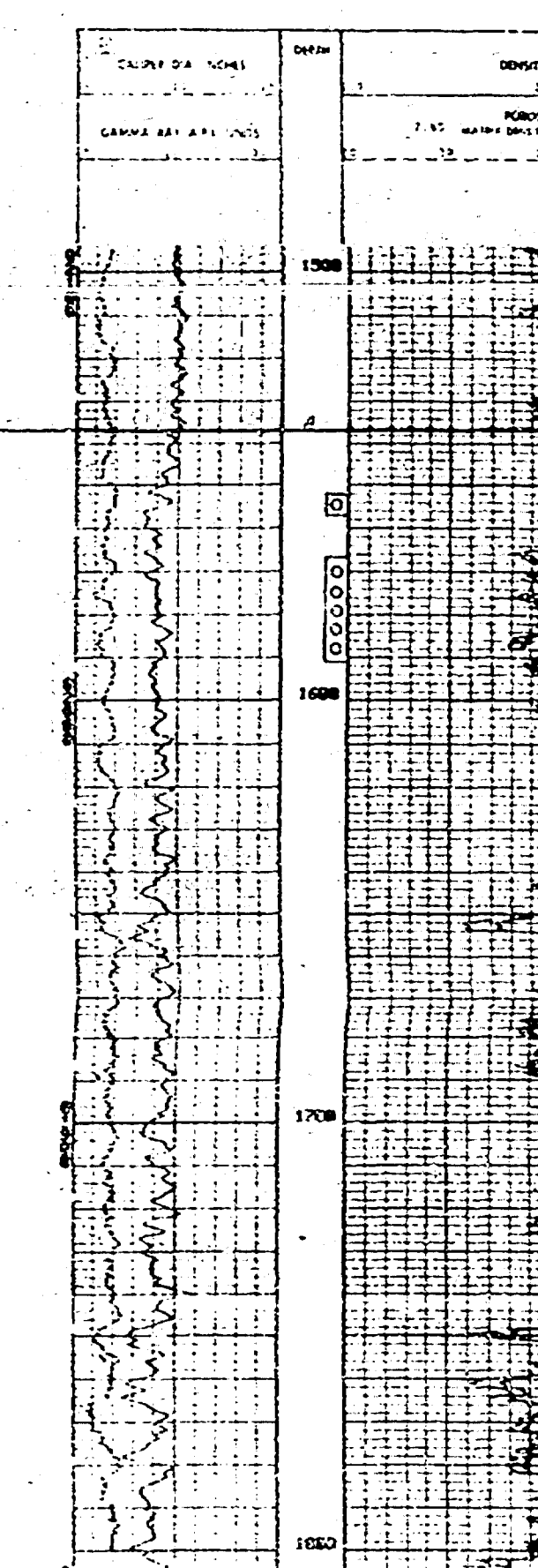
Perfs: 1484-1520
1556-1572
Treatment: 500 gal HCl
frac 71,000 gal 79,000 #Sd



Perfs: 1543-1572, 1624-1630
1634-1640
Treatment: 1,000 gal HCl
frac 15,000 gal 30,000 #Sd



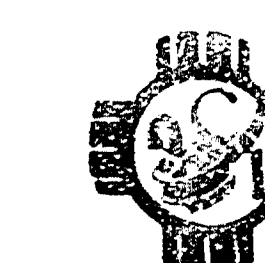
Perfs: 1526-1531, 1537-1539, 1543-1548,
1551-1555, 1612-1616, 1619-1622,
1713-1716, 1725-1730
Treatment: 1,000 gal HCl
frac 15,000 gal 30,000 #Sd



Perfs: 1552-1557, 1567-1592,
1597-1599
Treatment: 10,000 gal HCl
frac 15,000 gal 30,000 #Sd

Vertica
Horizon

W.P.R. J. REYNOLDS

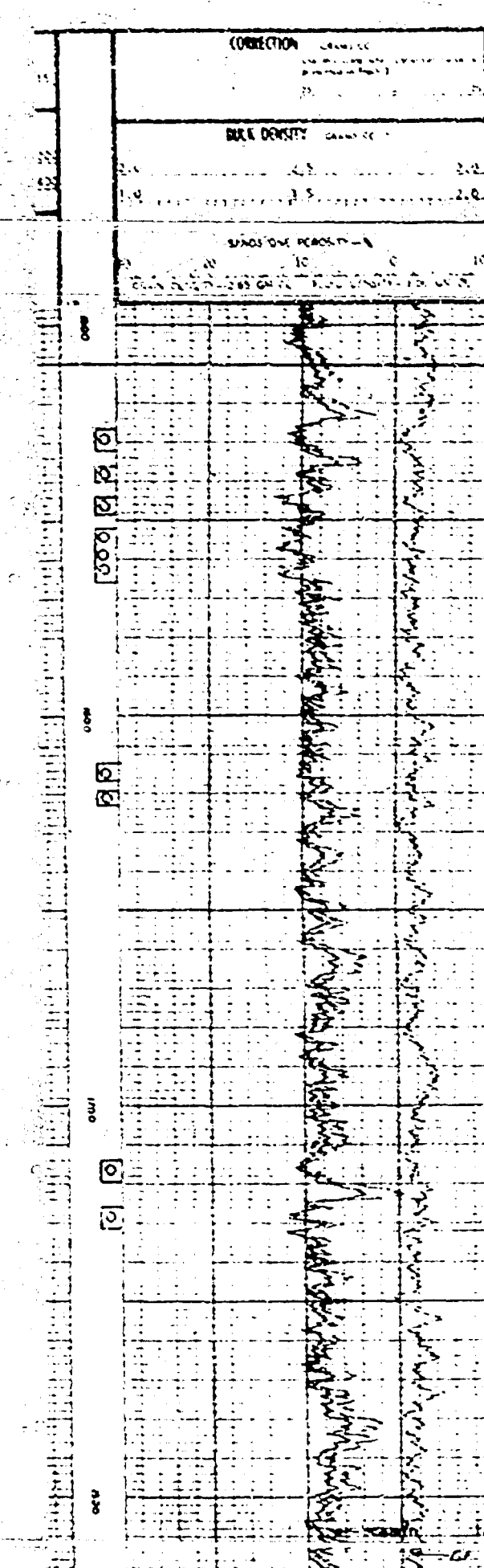


NOT AVALIABLE COPY



BENSON
J. 26-22-7 #1

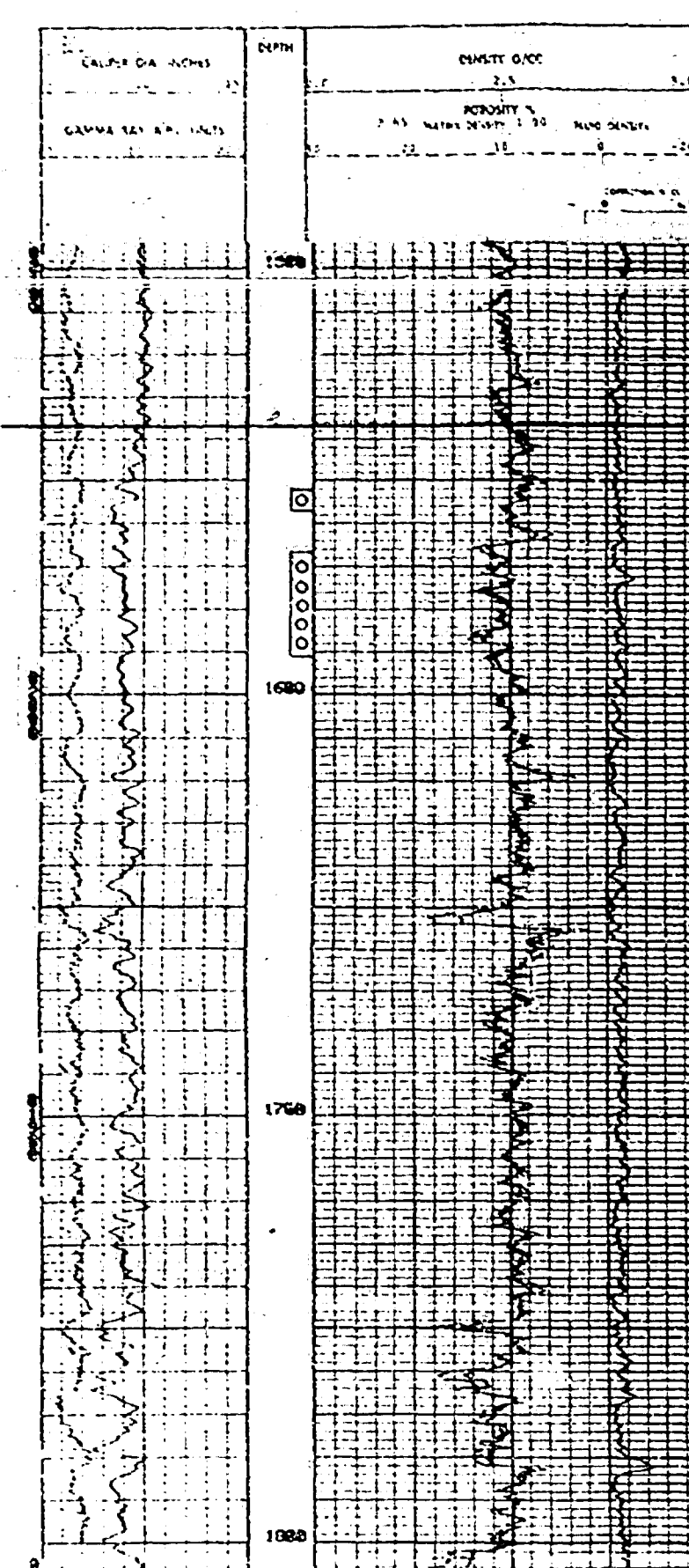
790' fml, 790' fwi
26, T 22 N, R 7 W
IP: 544 MCFD



-1521, 1597-1599, 1543-1548,
-1565, 1612-1616, 1619-1622,
-1718, 1725-1730
1,000 gal HCl
frac 15,000 gal 30,000 #Sd

BENSON
FED. 31-22-6 #1

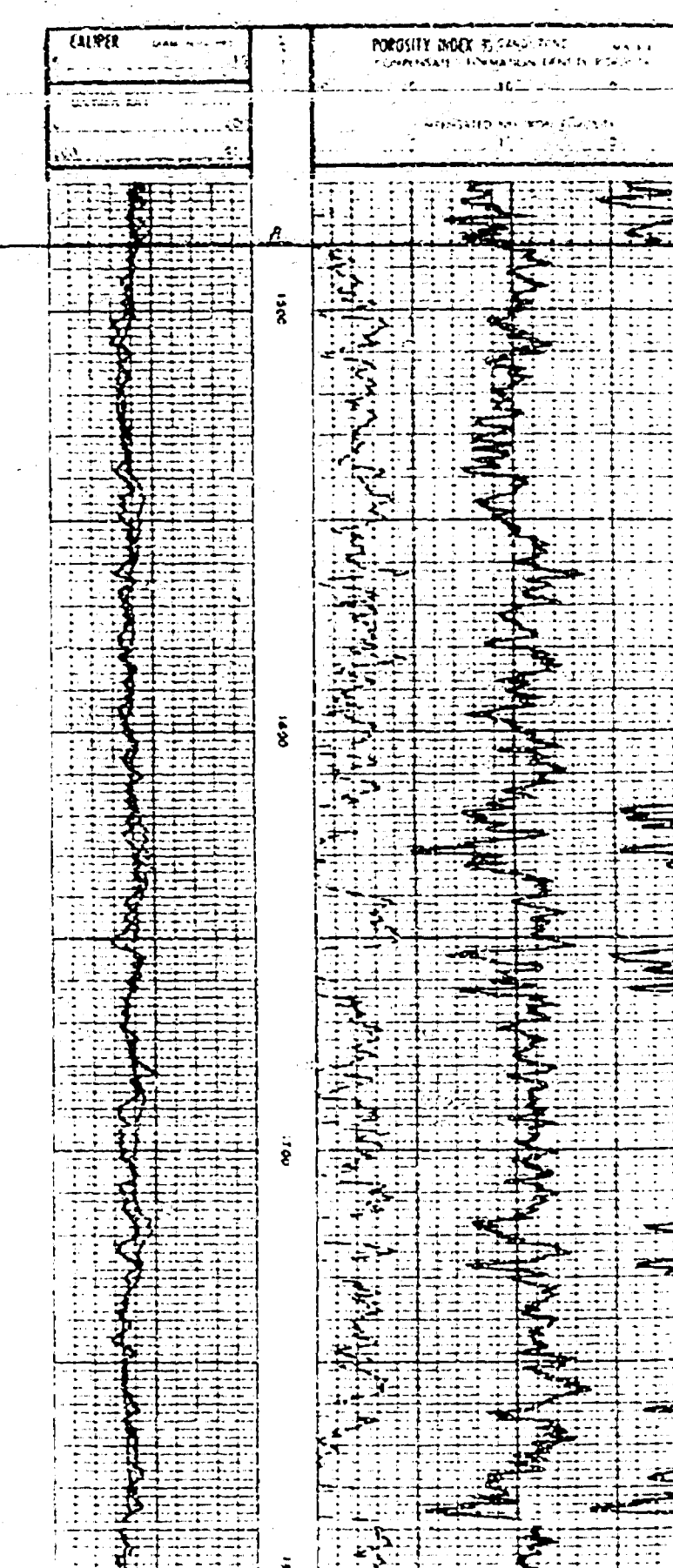
1470' fsl, 1551' fwi
31, T 22 N, R 6 W
IP: 262 MCFD



Perfs: 1552-1557, 1567-1592,
1597-1600,
Treatment: 10,000 gal HCl
frac 15,000 gal 30,000 #Sd

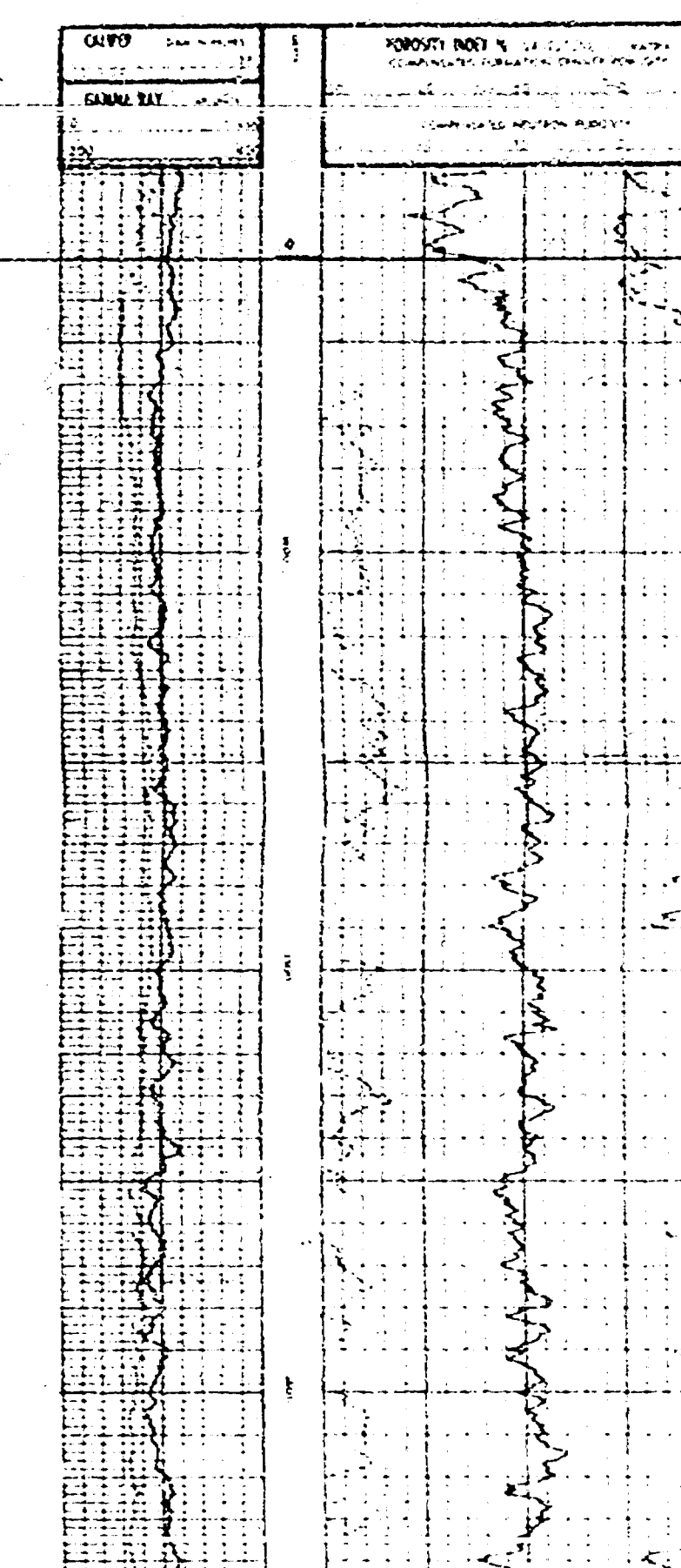
DOME PETROLEUM
FED. 3 #1

660' fsl, 2310' fwi
3, T 22 N, R 6 W



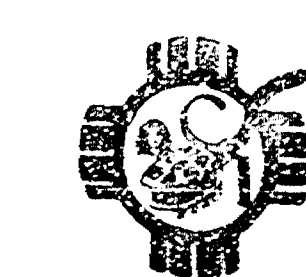
DOME PETROLEUM
FED. 24-21-6 #1

330' fsl, 2310' fwi
24, T 22 N, R 6 W

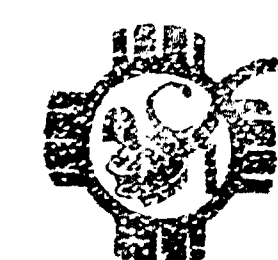
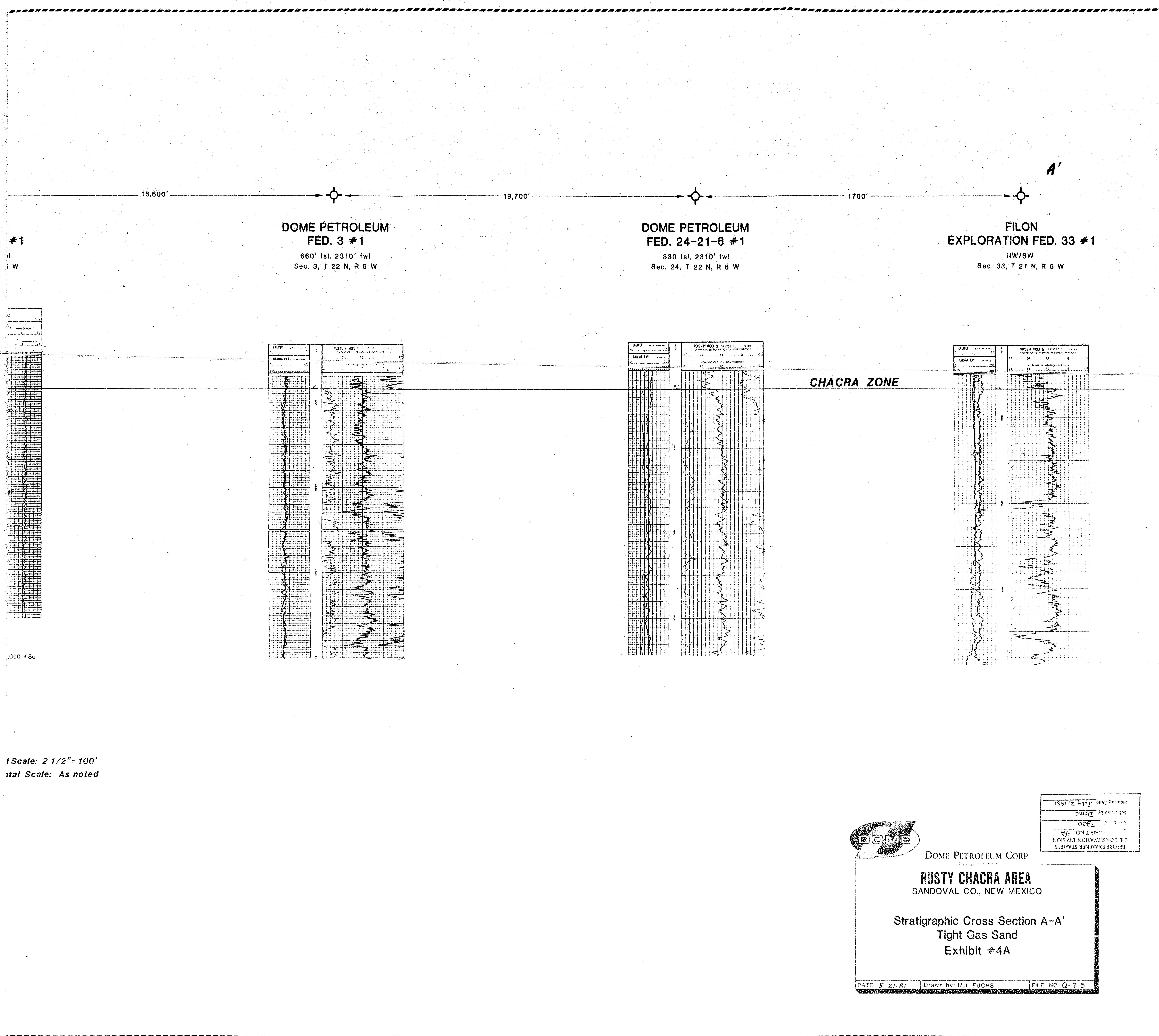


Vertical Scale: 2 1/2" = 100'
Horizontal Scale: As noted

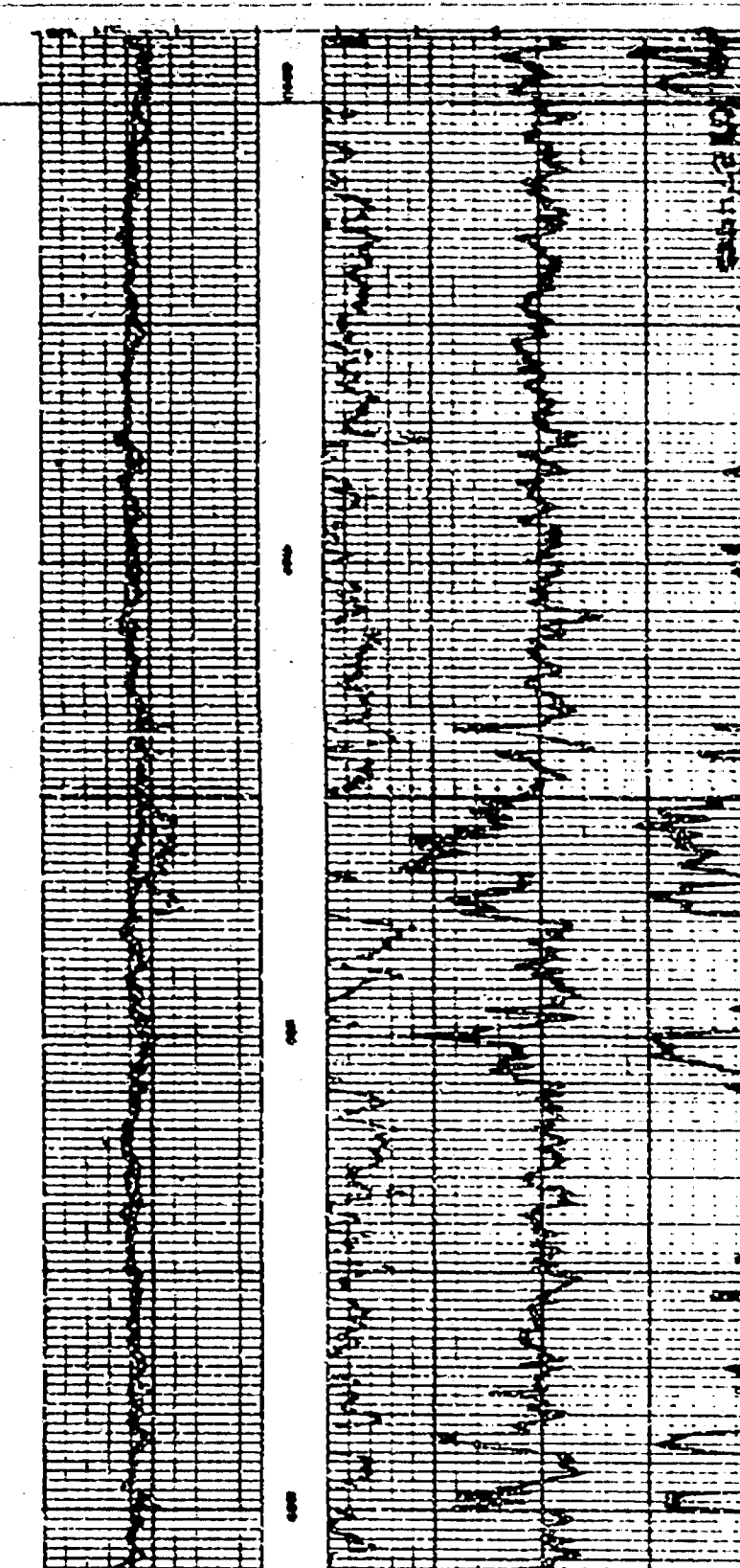
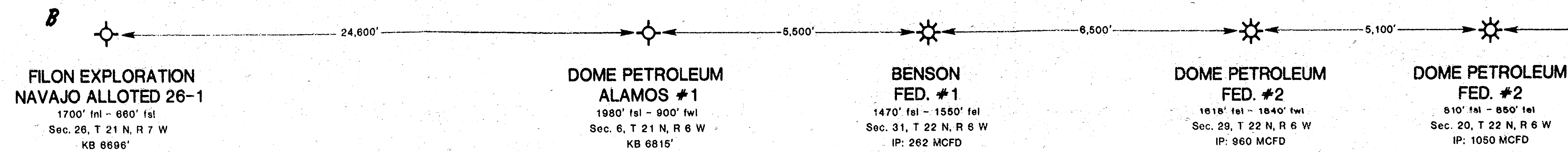
W. J. J. RETROACTIVE



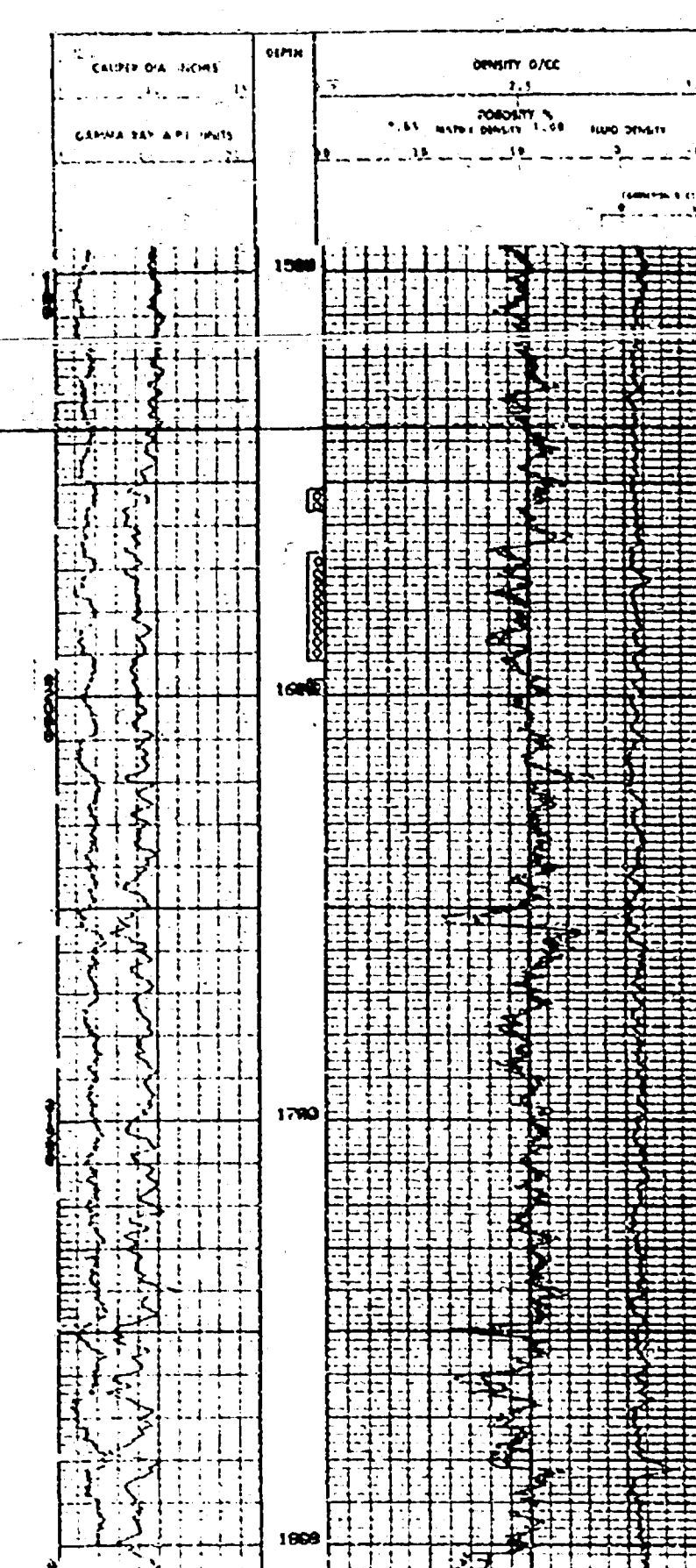
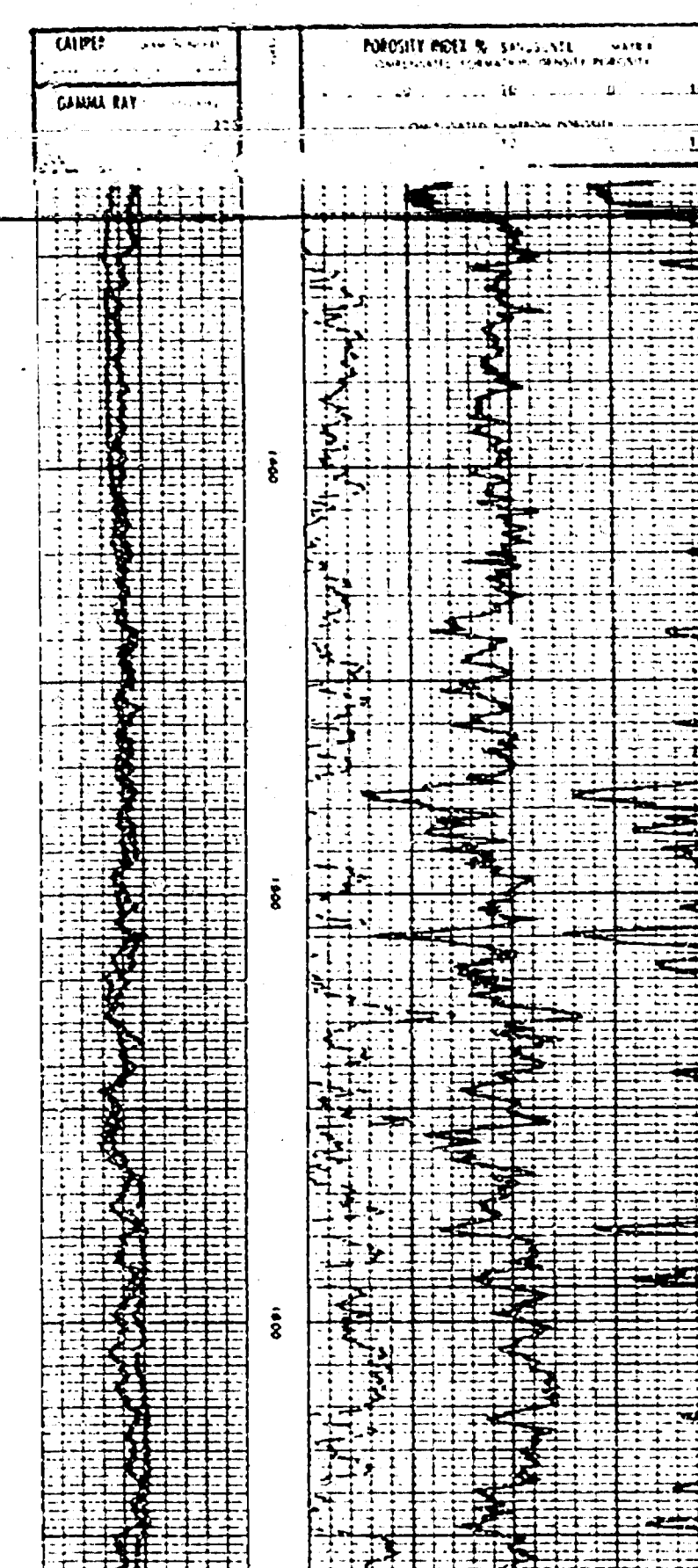
BEST AVAILABLE COPY



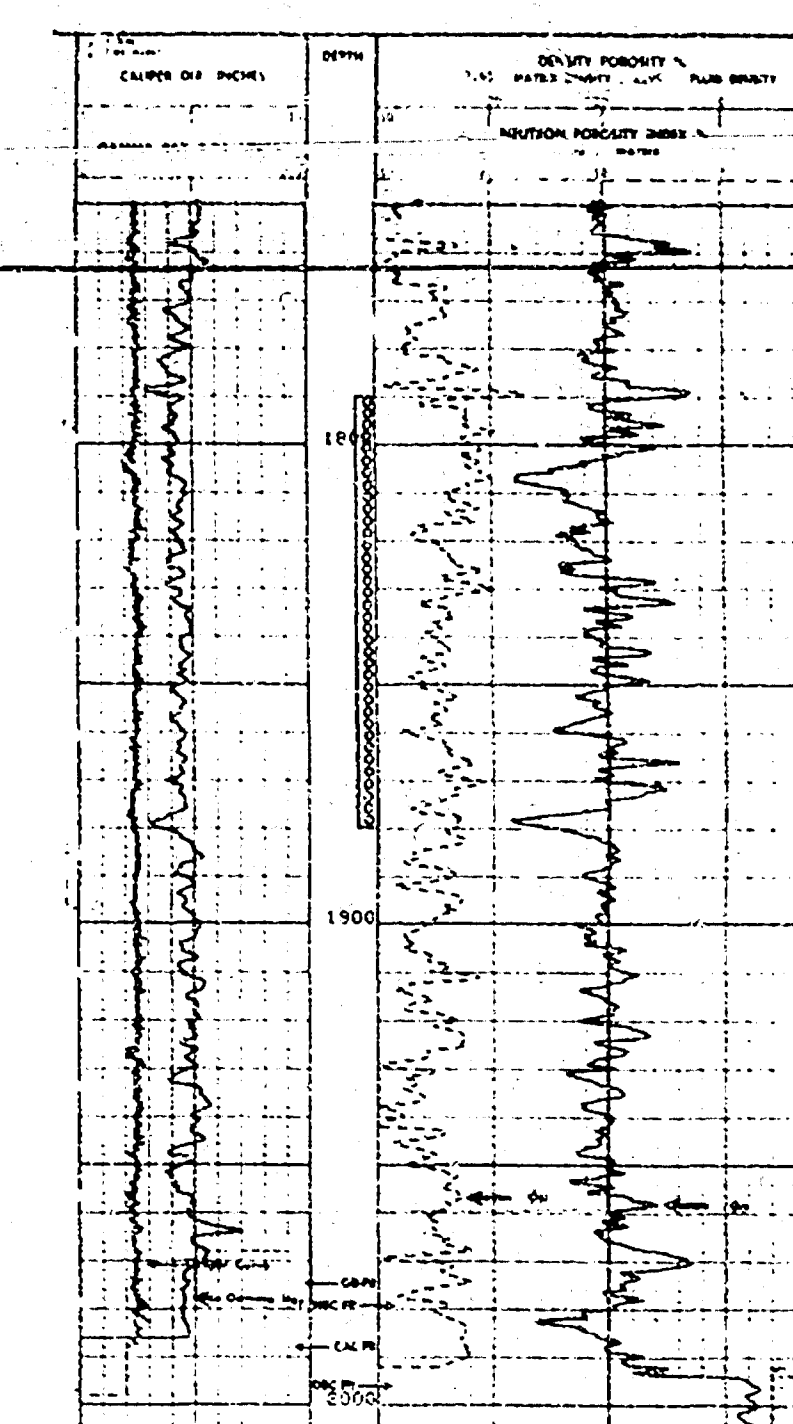
REPT AVAILABLE 1991



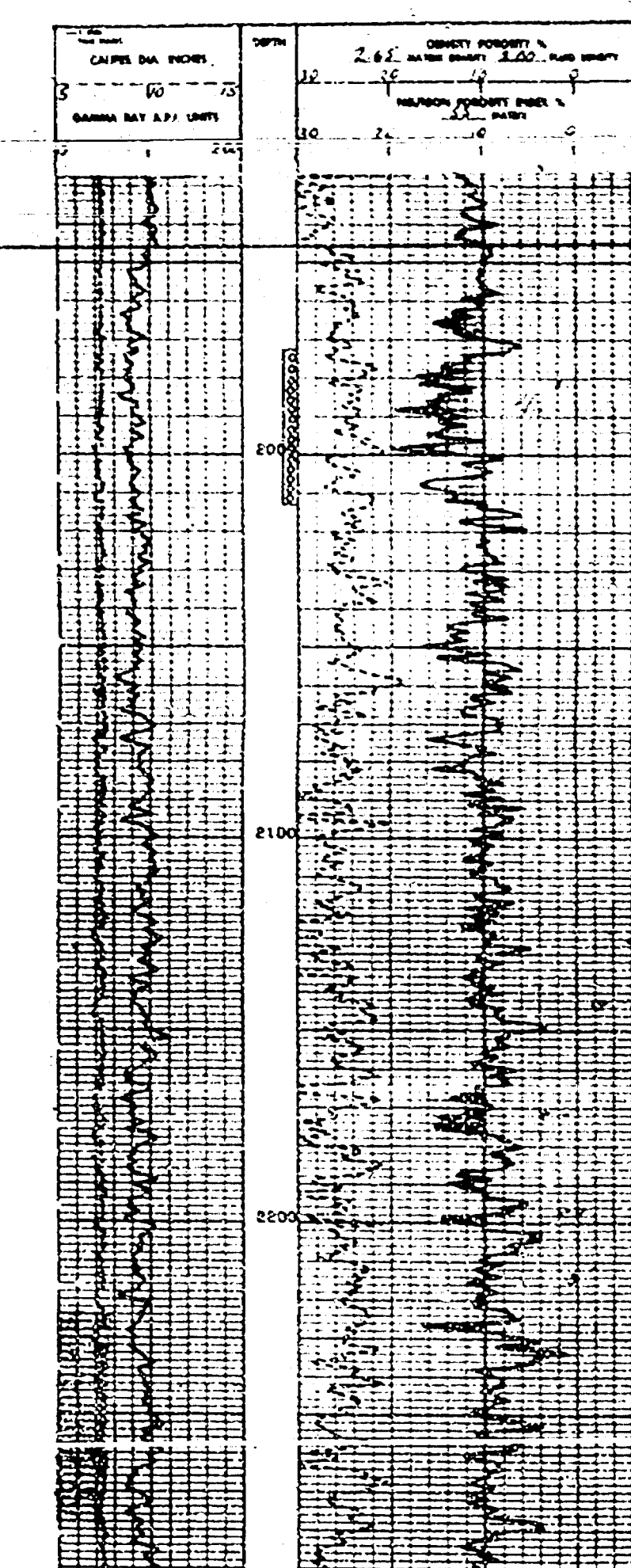
CHACRA ZONE



Perfs: 1552-1557, 1567-1592,
1597-1600
 Treatment: 1,000 gal HCl
 frac 15,000 gal 30,000 #sd



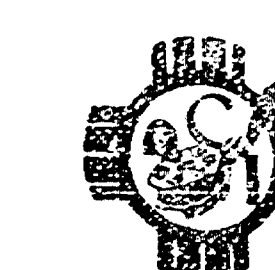
Perfs: 1790-1880
 Treatment: 500 gal HCl
 frac 40,000 gal 53,000 #sd



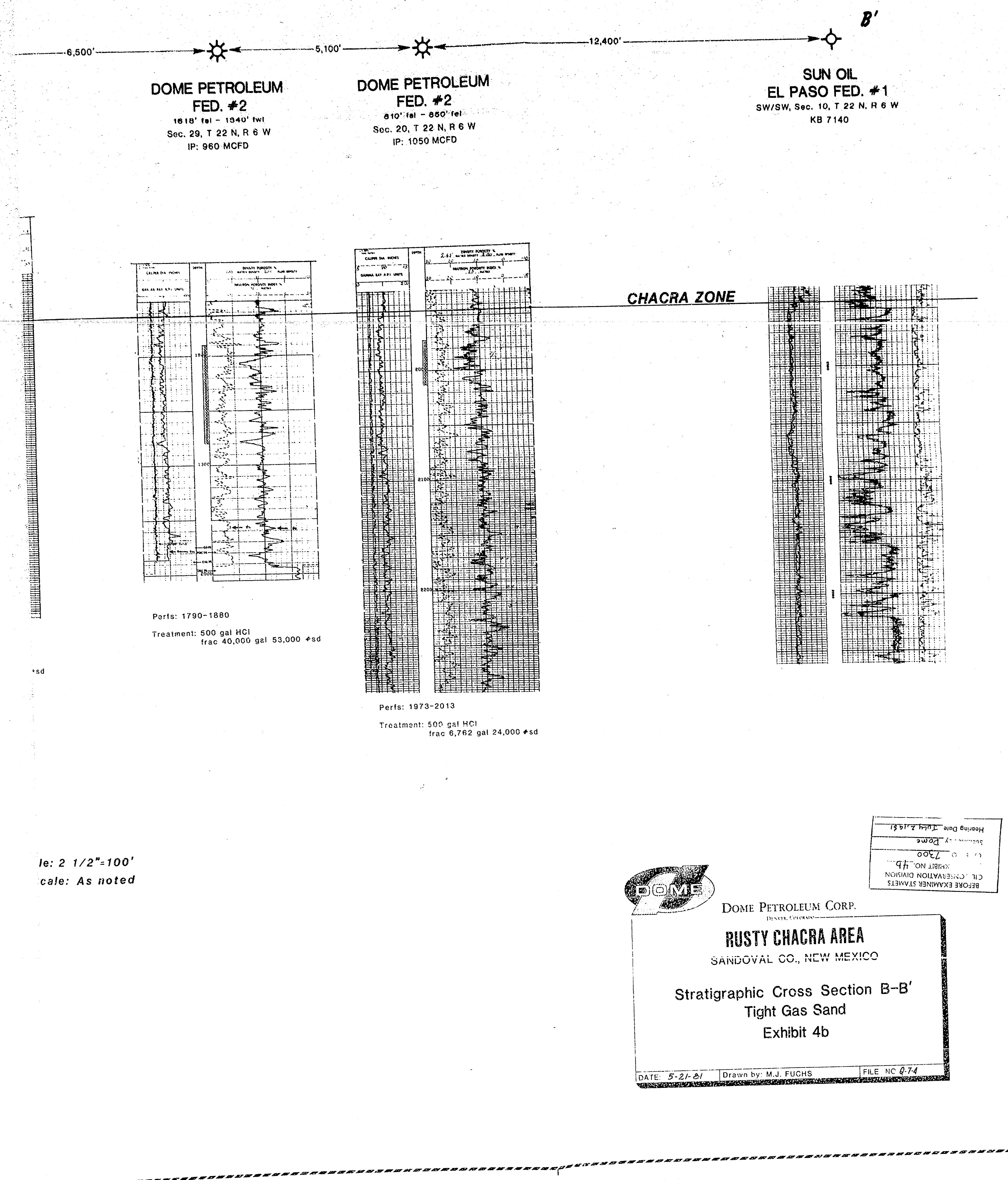
Perfs: 1973-2013
 Treatment: 500 gal HCl
 frac 6,762 gal 24,000 #sd

Vertical Scale: 2 1/2"=100'
 Horizontal Scale: As noted

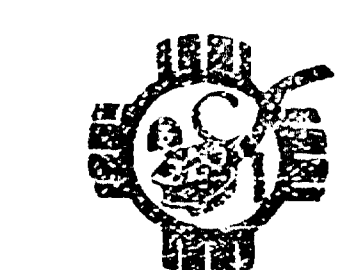
W.A.M.C. MICROFILMS



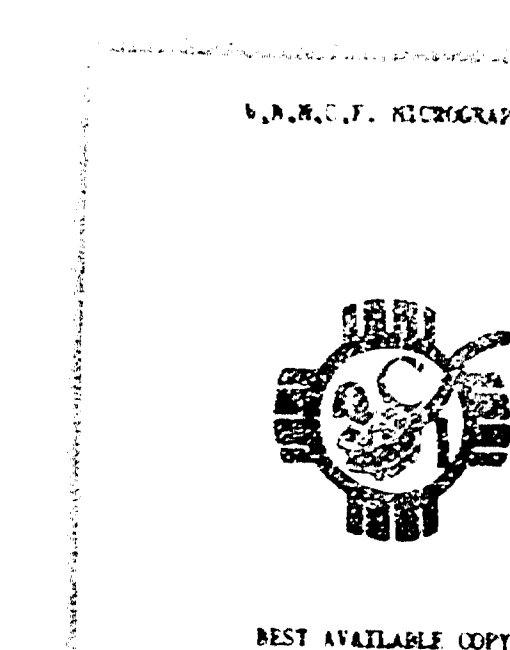
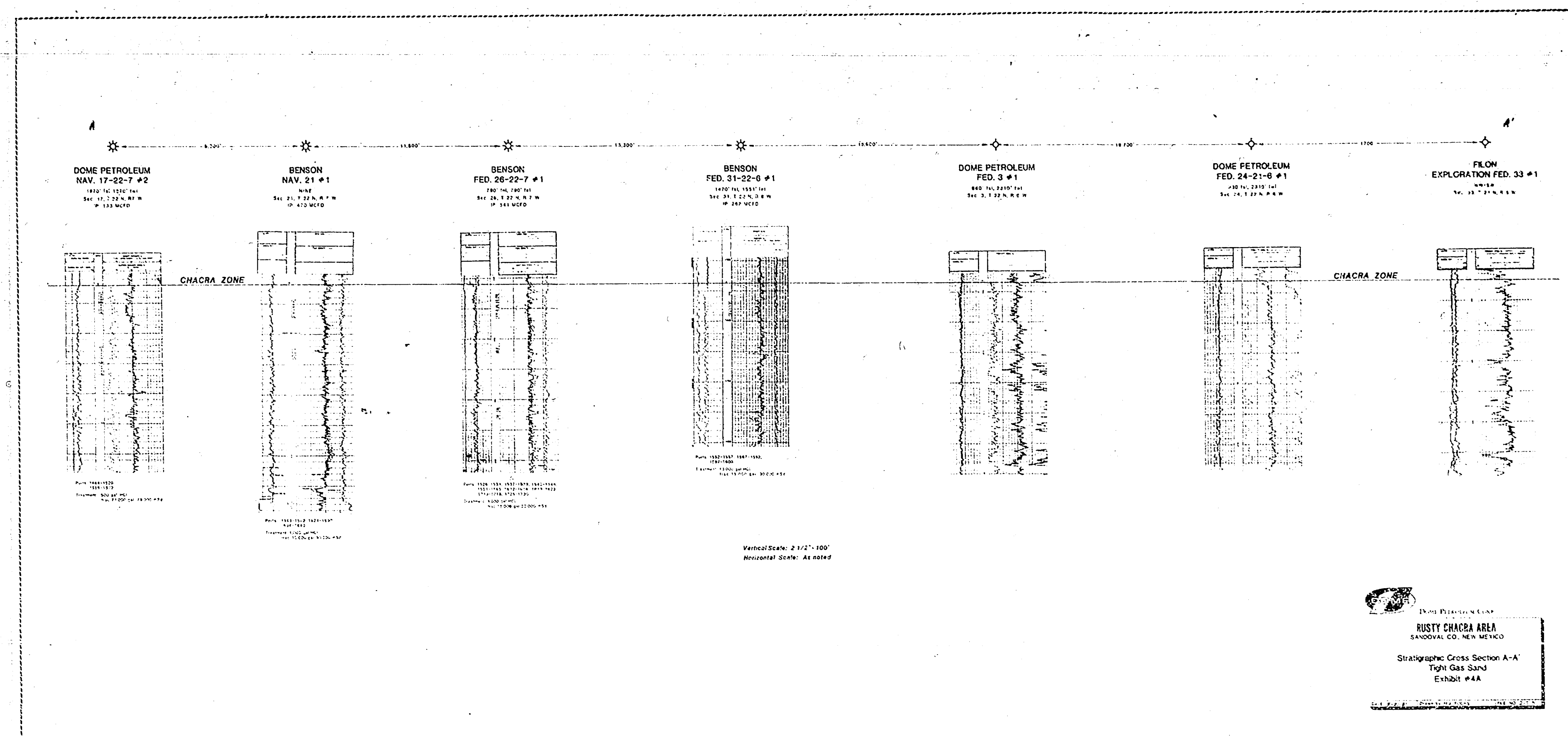
BEST AVAILABLE COPY



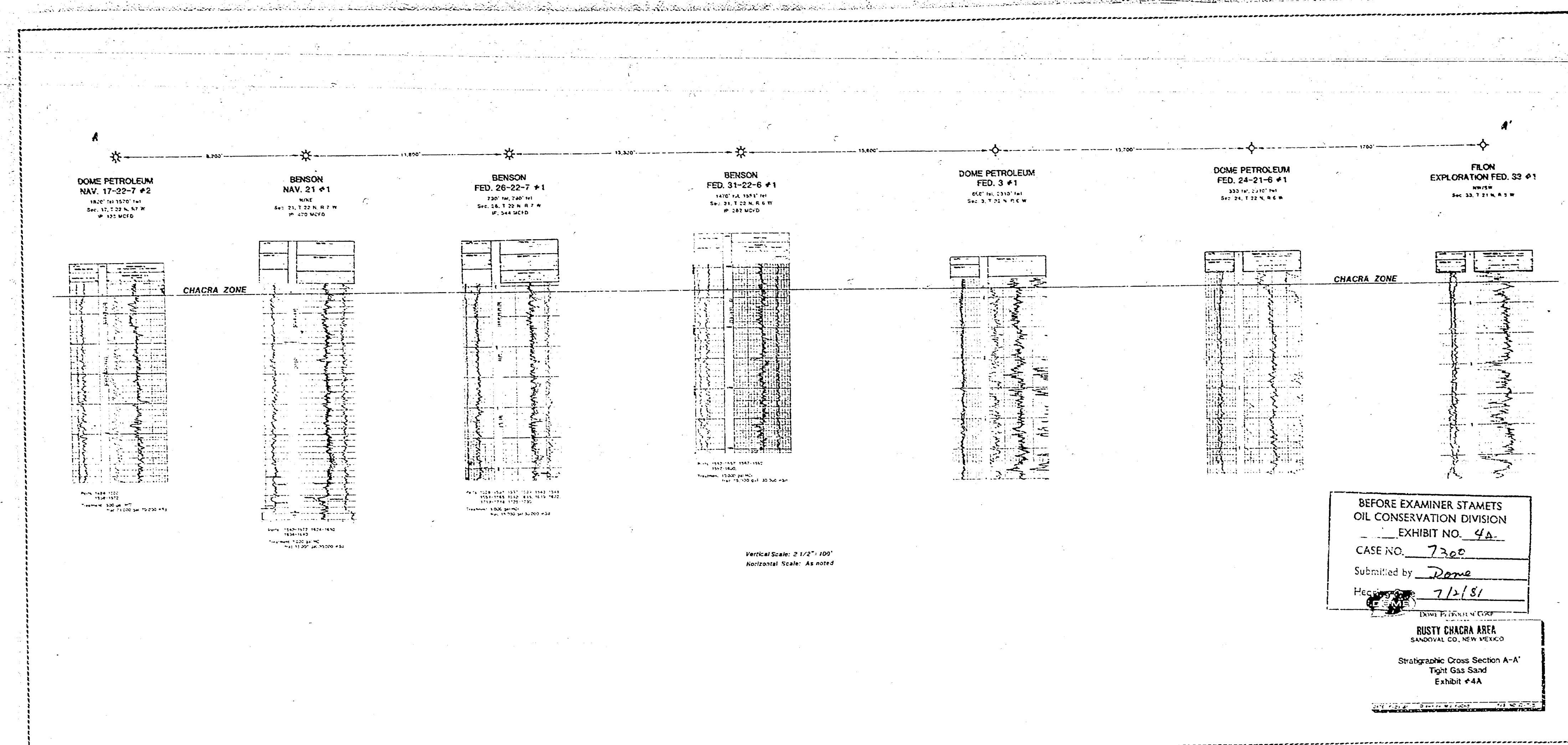
NEW MEXICO GEOLOGICAL SURVEY



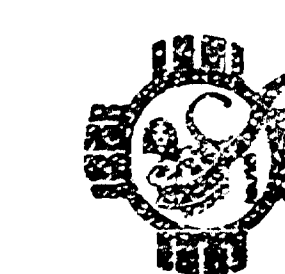
BEST AVAILABLE COPY



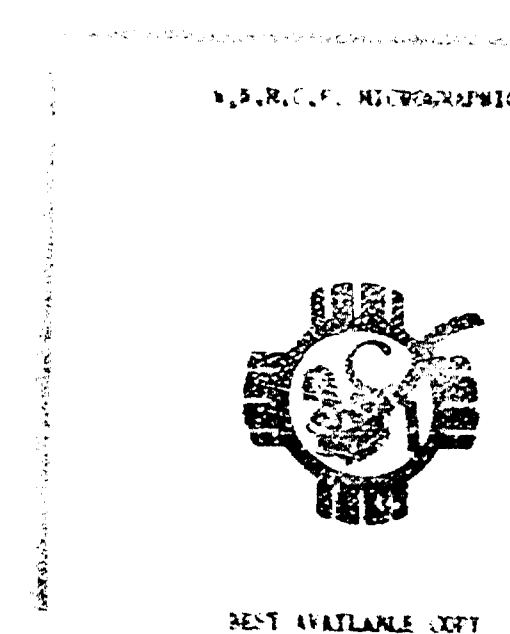
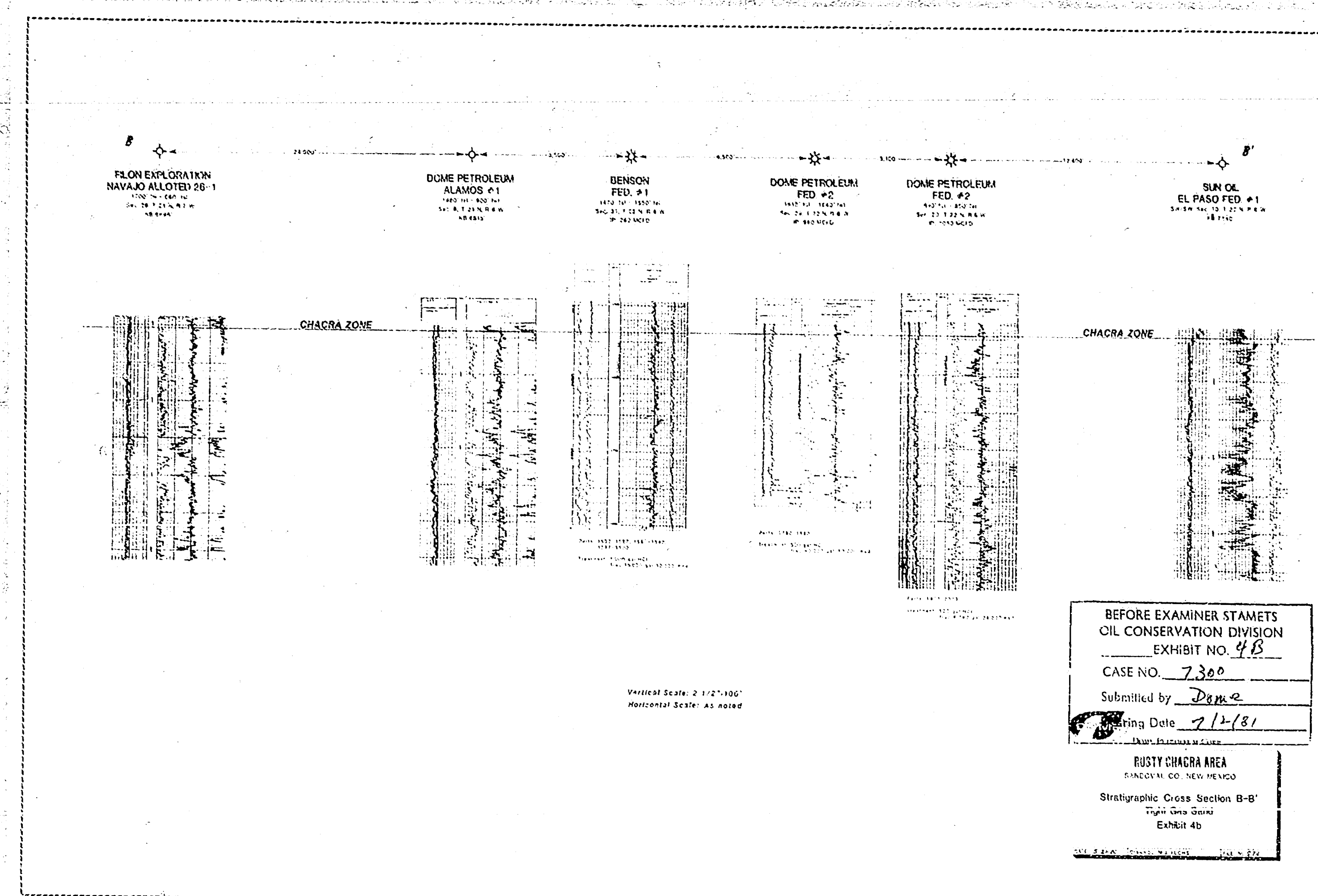
BEST AVAILABLE COPY



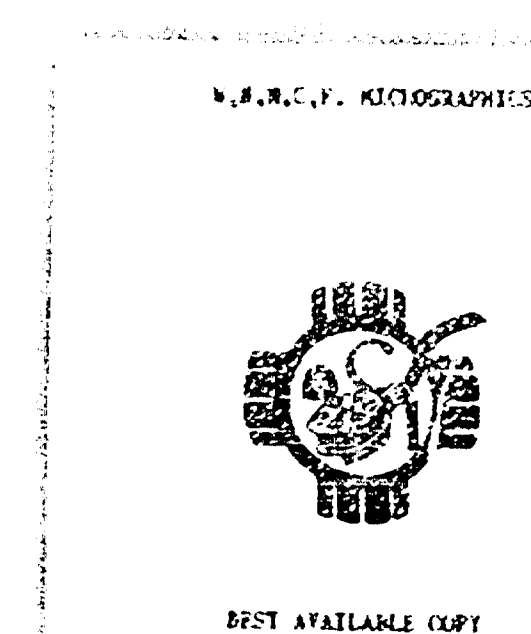
V.P.A.L.F. MICROFILMS

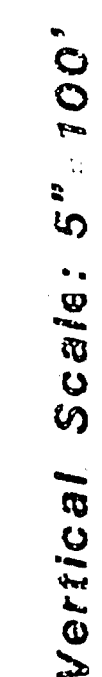


BEST AVAILABLE COPY



BEFORE EXAMINATION ON CONSENT OF DIVISION CASE NO. <u>1300</u> Submitted by <u>Dr. [Signature]</u> Hearing Date <u>7/2/61</u>		BRIDGEMAN [Grid with waveforms] [Grid with waveforms]
--	--	--



[illegible]

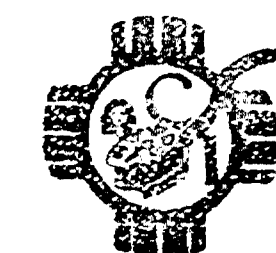
BEFORE EXAMINER, T.A. LITS
OIL CONSERVATION, INC.
EXHIBIT A 5
CASE NO. 7300
Submitted by Bone
Hearing Date July 2, 1940



DOME
RUSTY CHACRA AREA
 SANDOVAL CO., NEW MEXICO

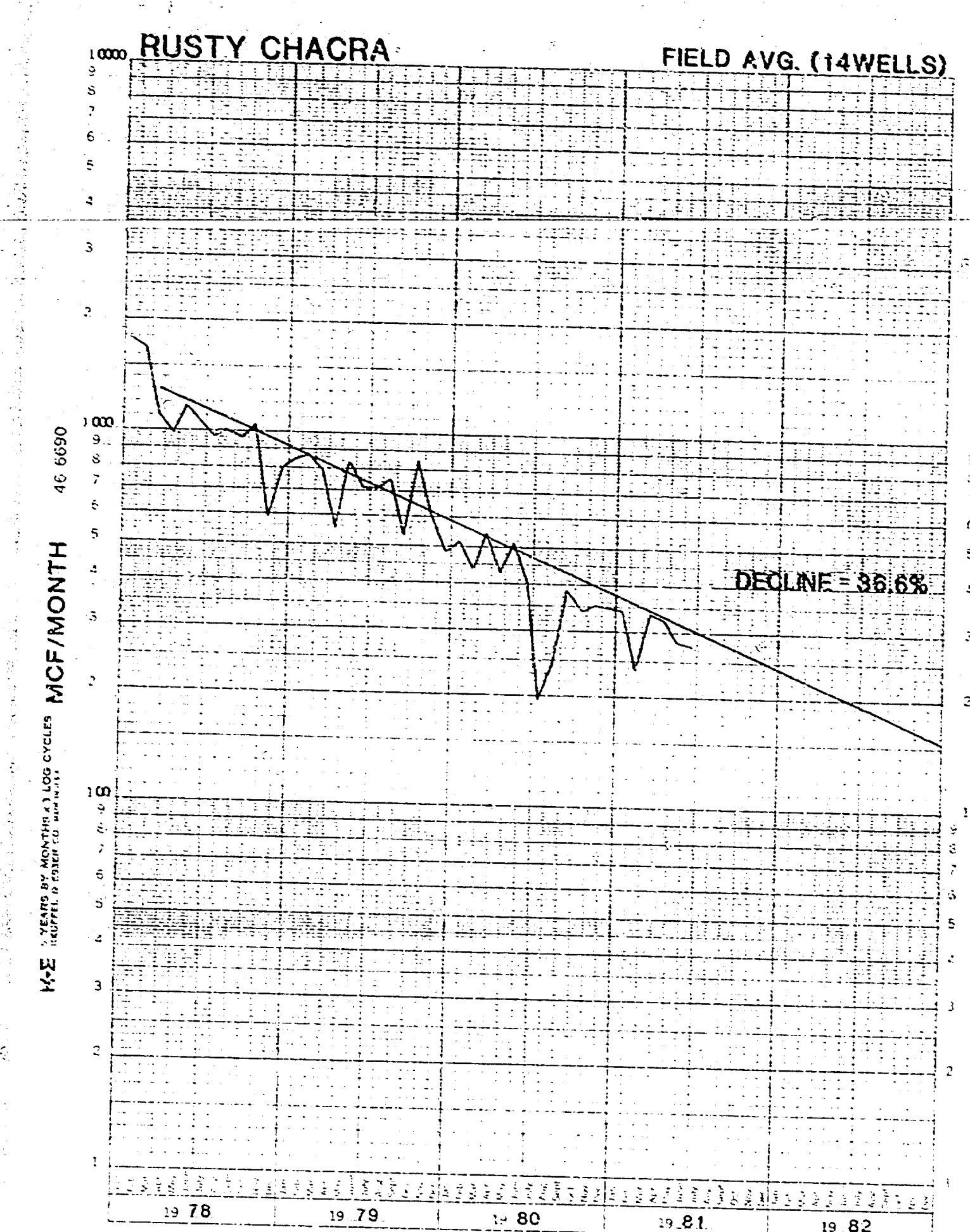
TYPE LOG
RUSTY CHACRA ZONE
PROPOSED TIGHT GAS FORMATION AREA
Exhibit 5

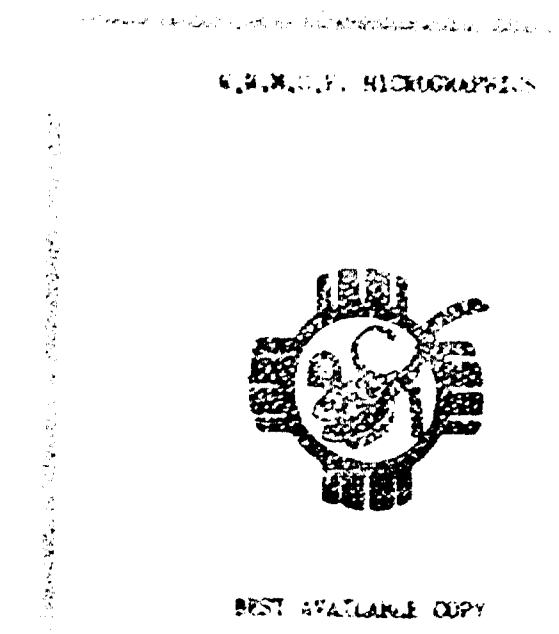
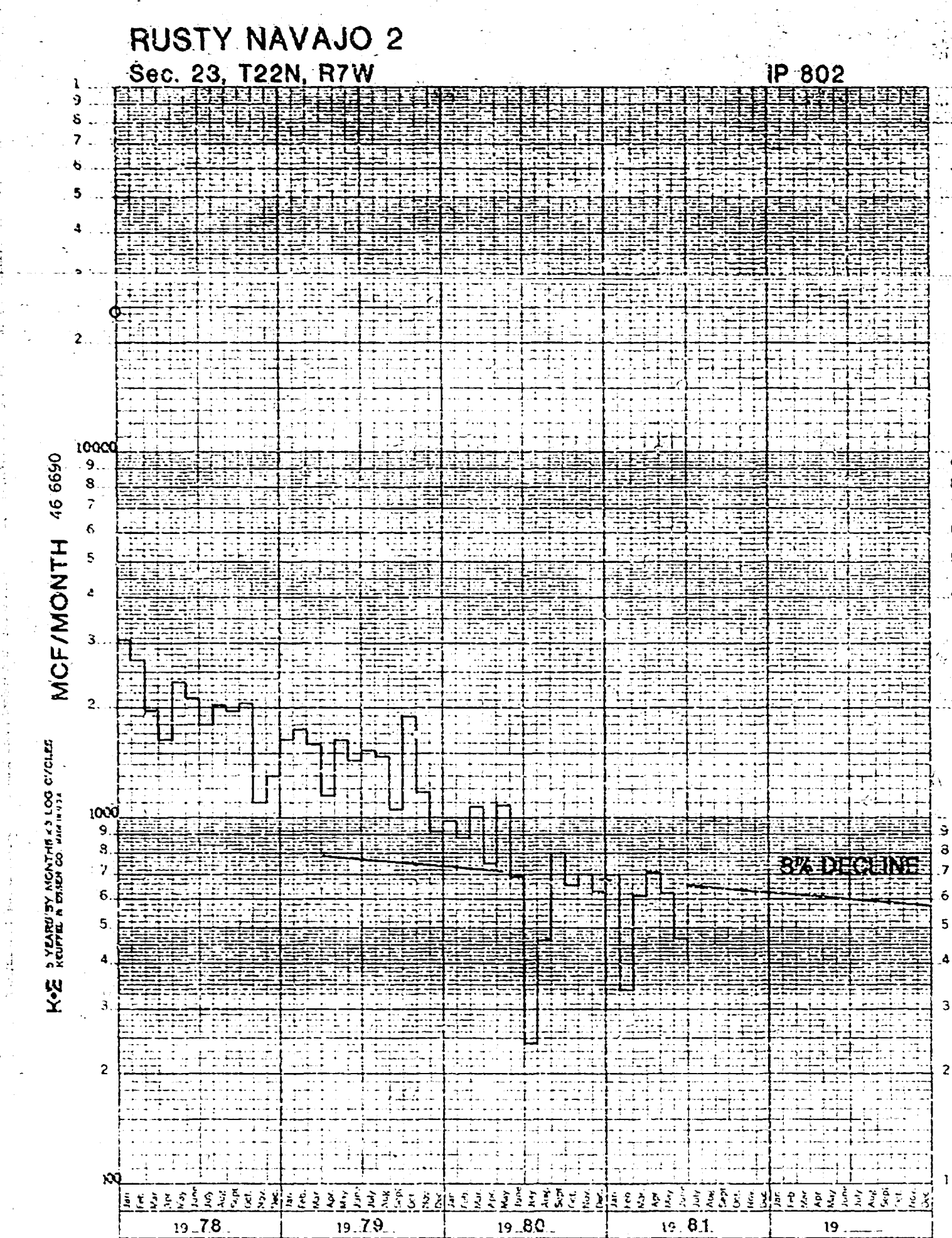
DATE: 5-21-81	Drawn by: M.J. FUCHS	FILE NO. Q-27-6
---------------	----------------------	-----------------

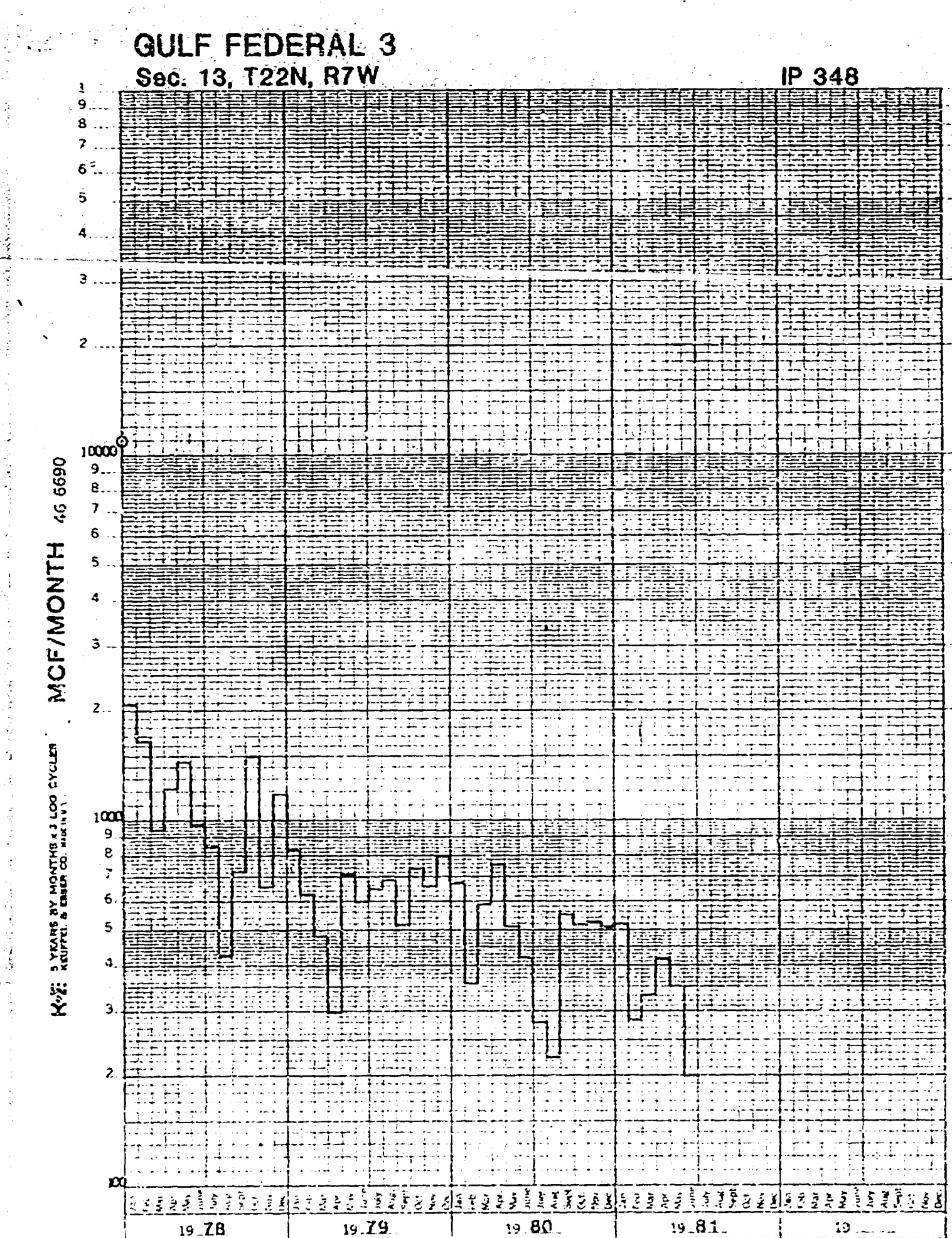


N.B.R.C.F. MICROGRAPHICS

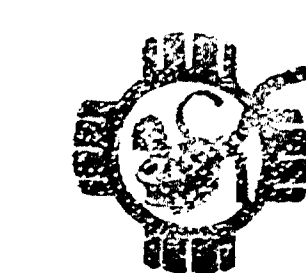
BEST AVAILABLE COPY



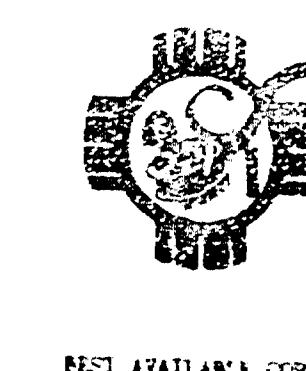
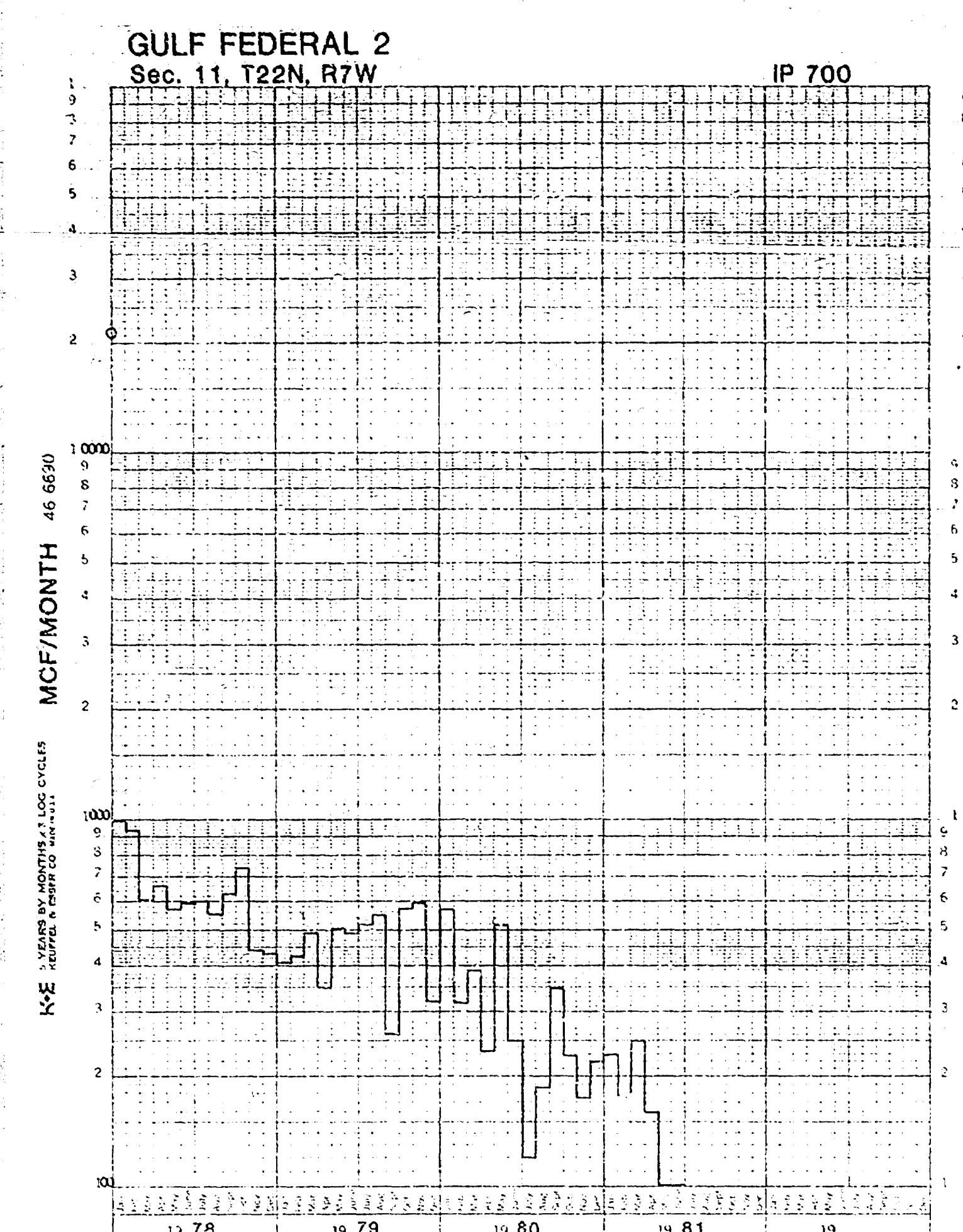




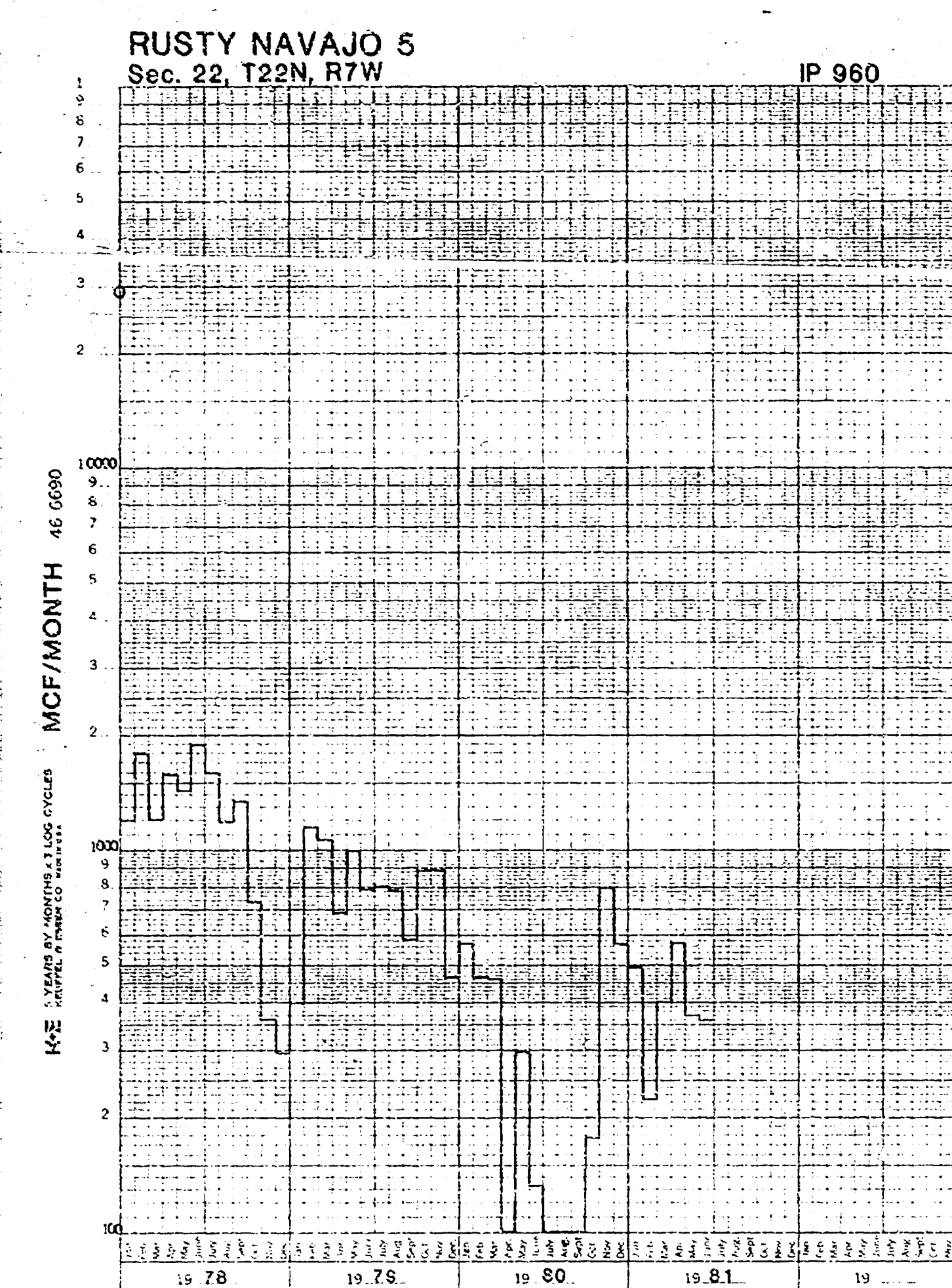
U.S. DEPARTMENT OF THE INTERIOR



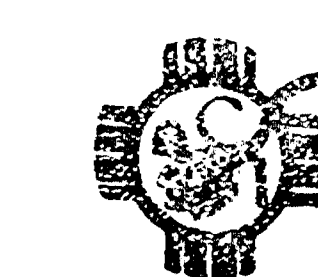
BLM-100 (12/81)



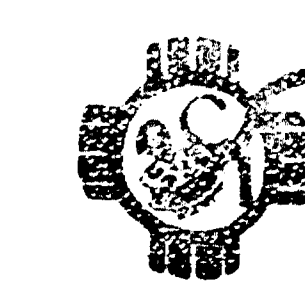
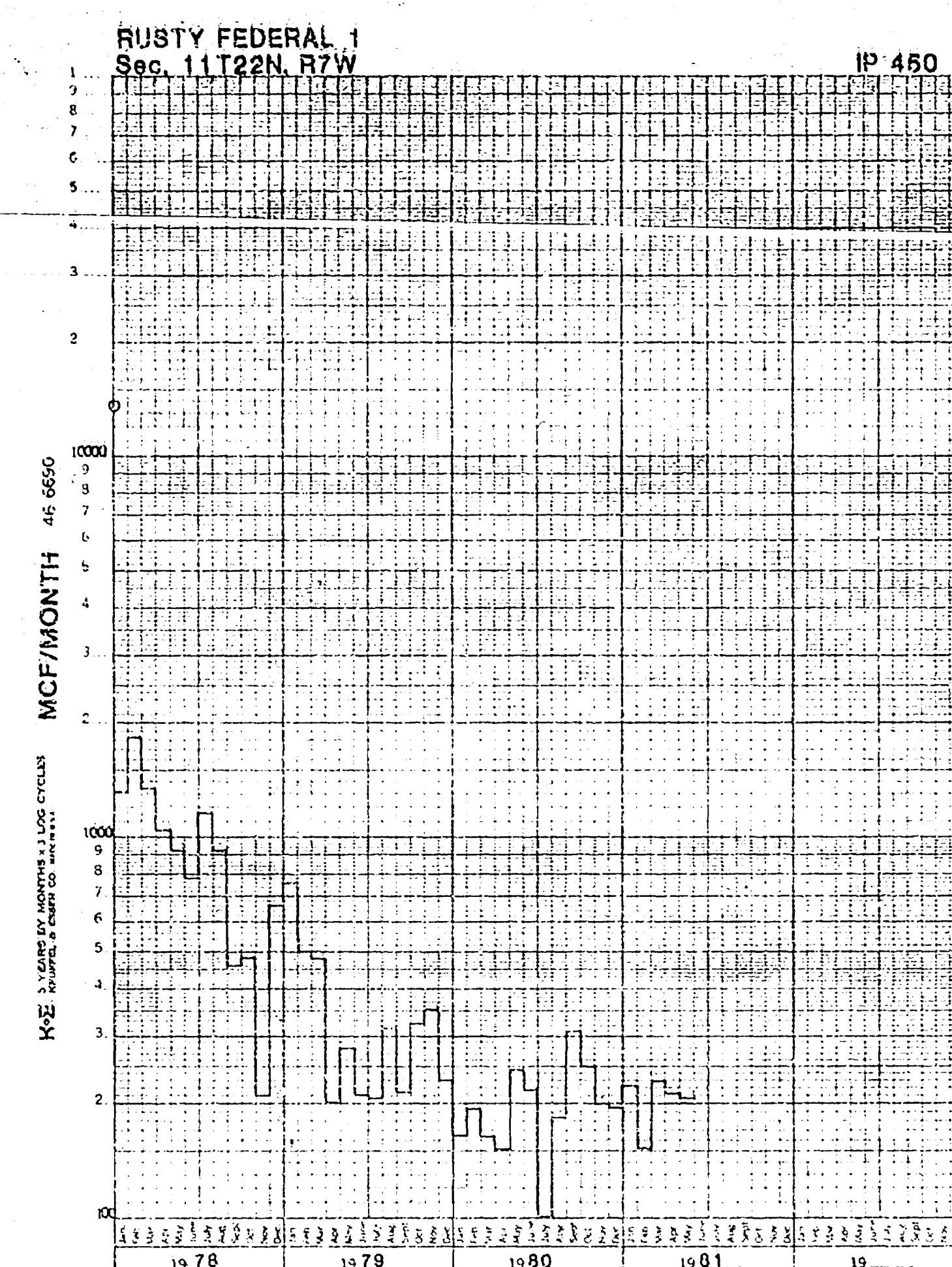
NOT AVAILABLE COPY



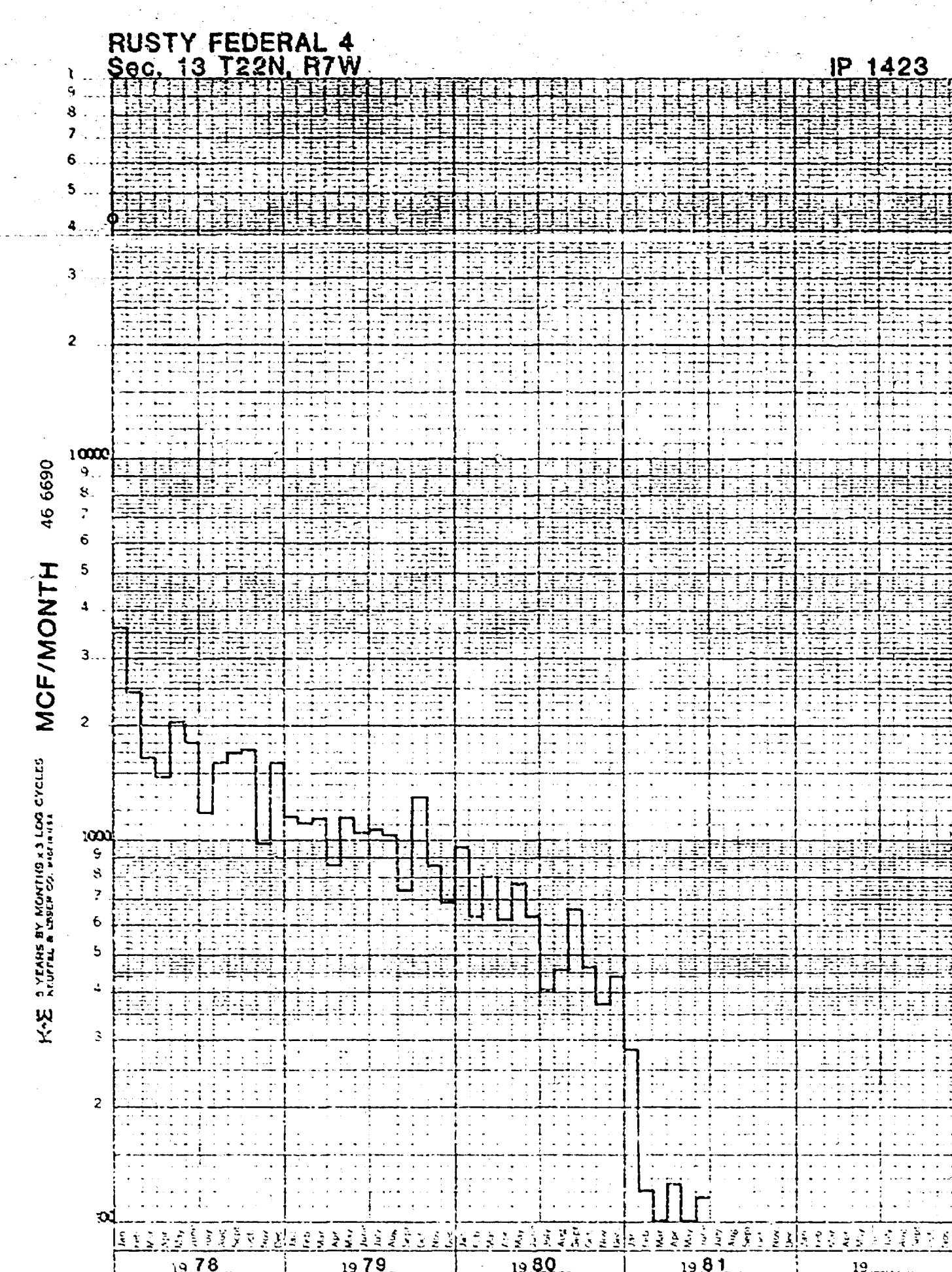
U.S. GEOLOGICAL SURVEY



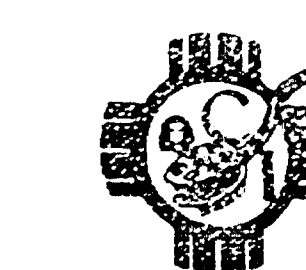
REST AVAILABLE (U)



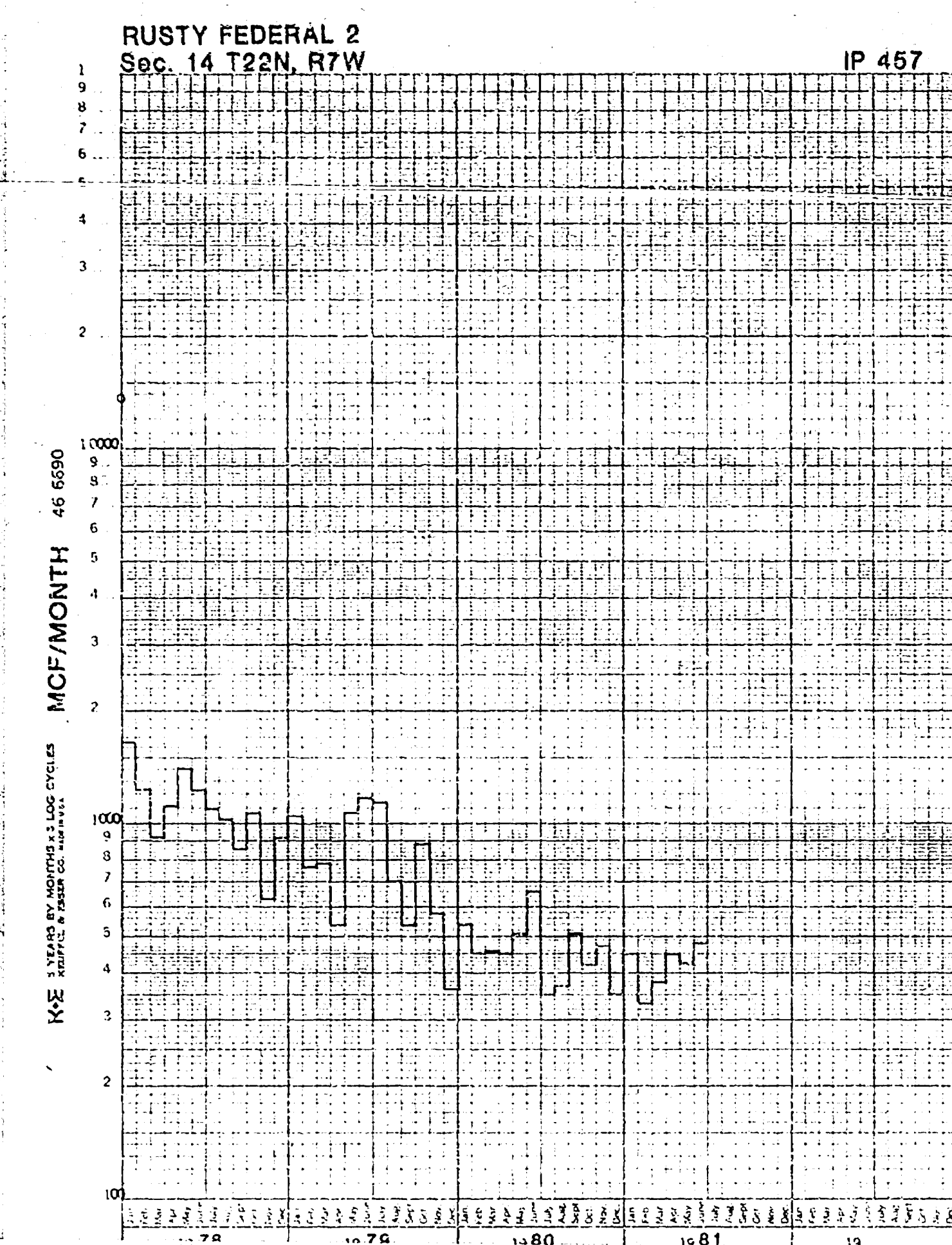
NOT AVAILABLE COPY



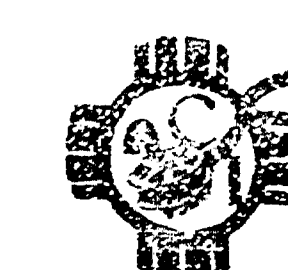
U.S. GEOLOGICAL SURVEY



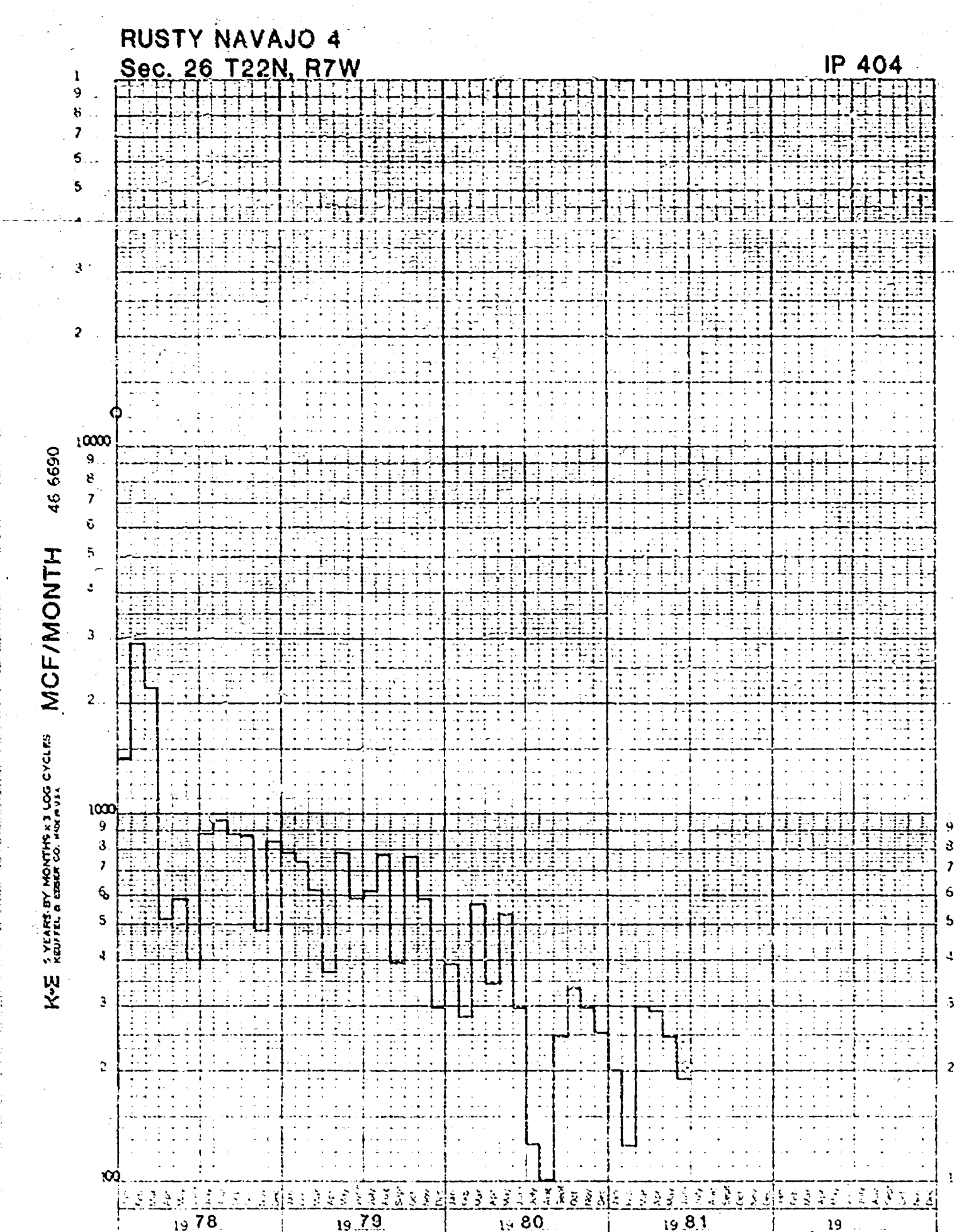
BEST AVAILABLE COPY



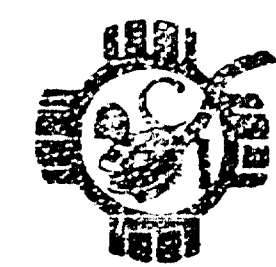
W.P.O. 1/1, 1/2, 1/3, 1/4, 1/5, 1/6, 1/7, 1/8, 1/9, 1/10, 1/11, 1/12, 1/13, 1/14, 1/15, 1/16, 1/17, 1/18, 1/19



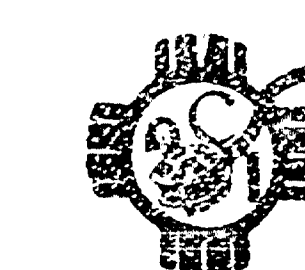
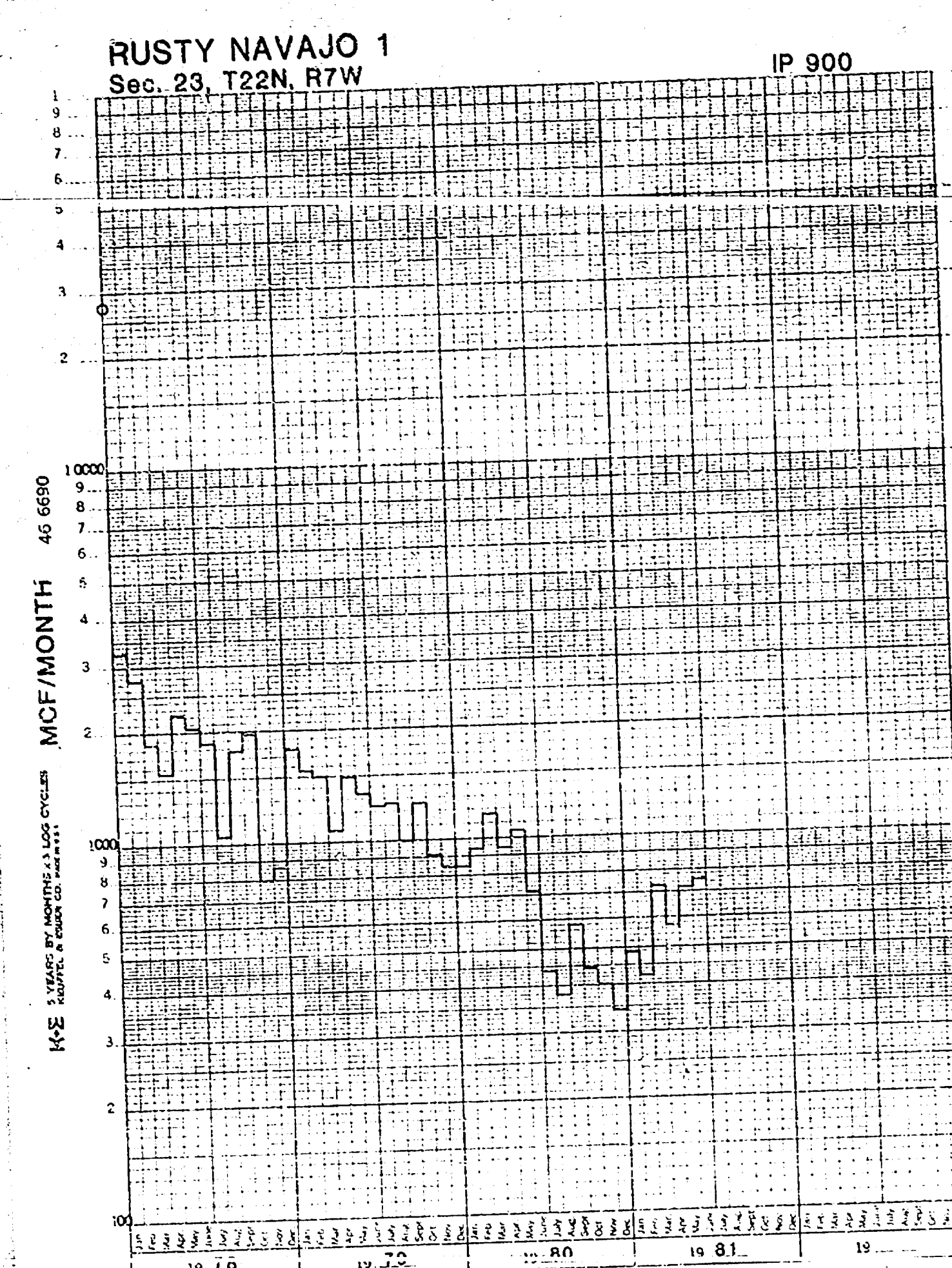
NOTE: AVAILABLE 1/21



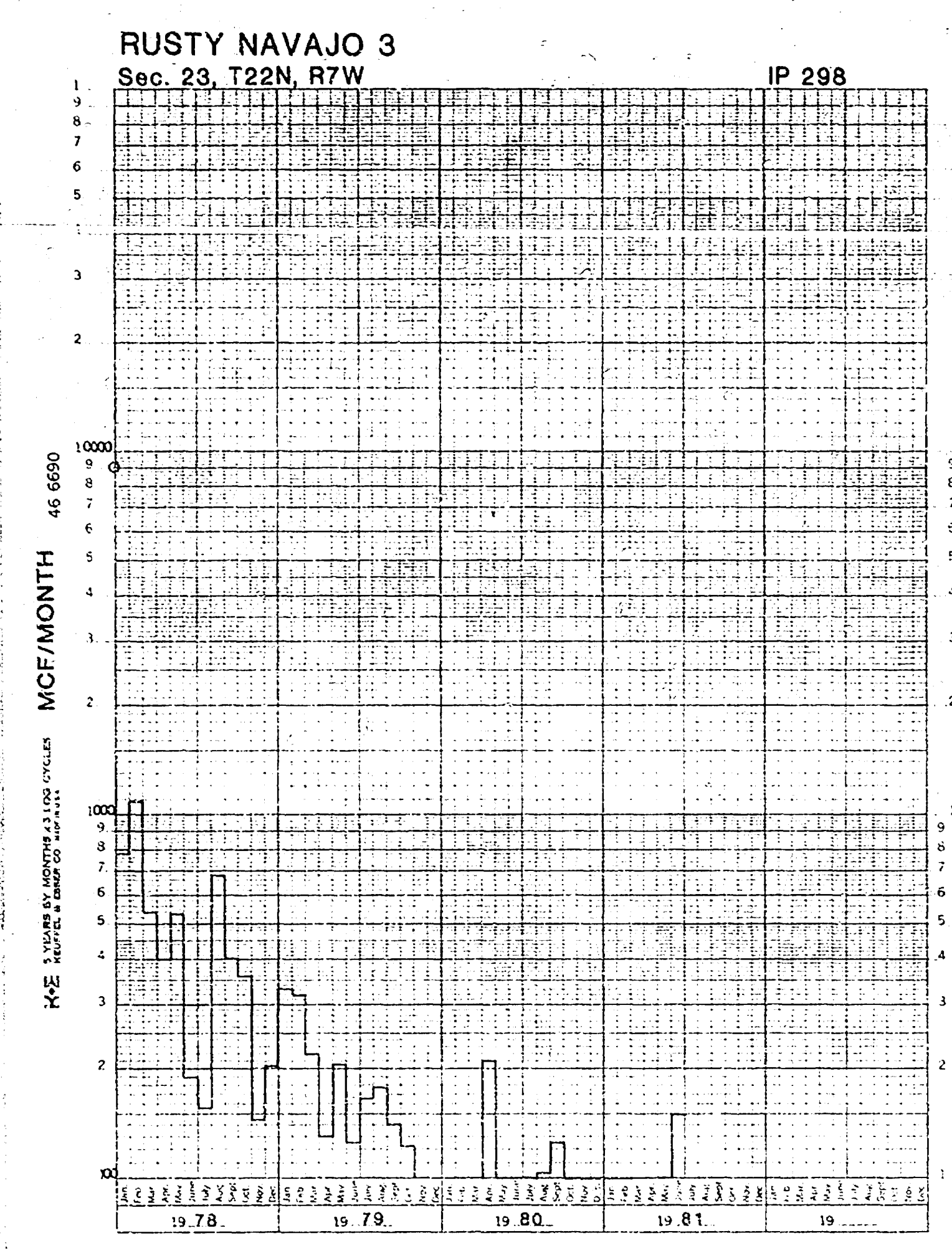
U.S. GEOLOGICAL SURVEY

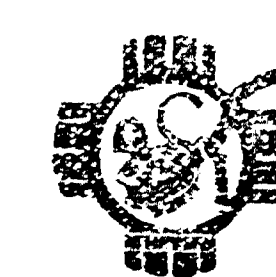
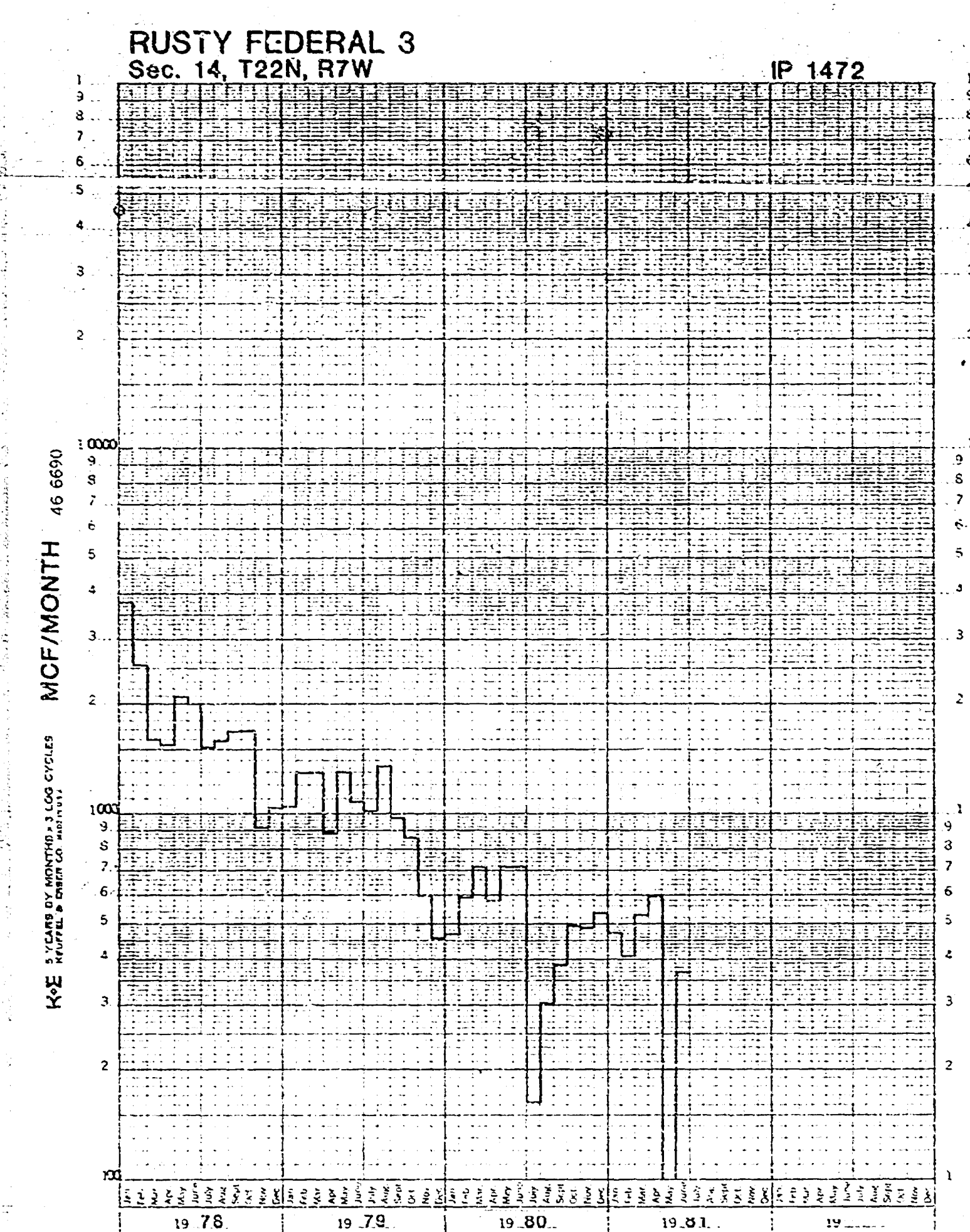


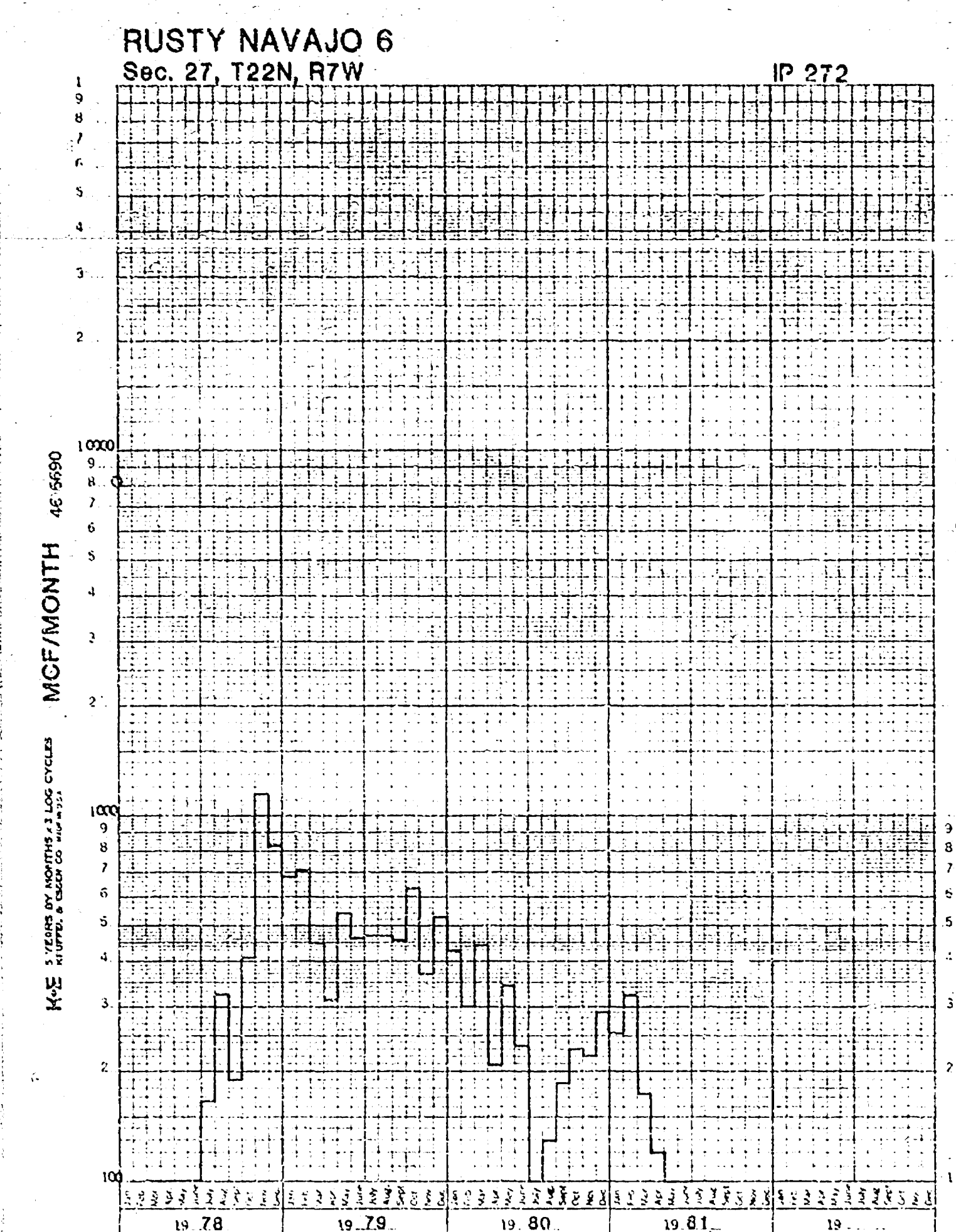
REST AVAILABLE COPY



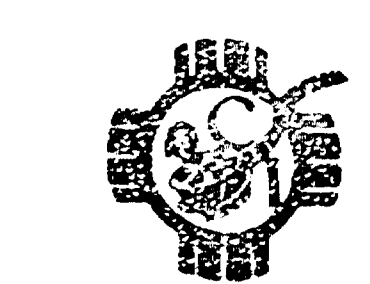
RUSTY NAVAJO COPY



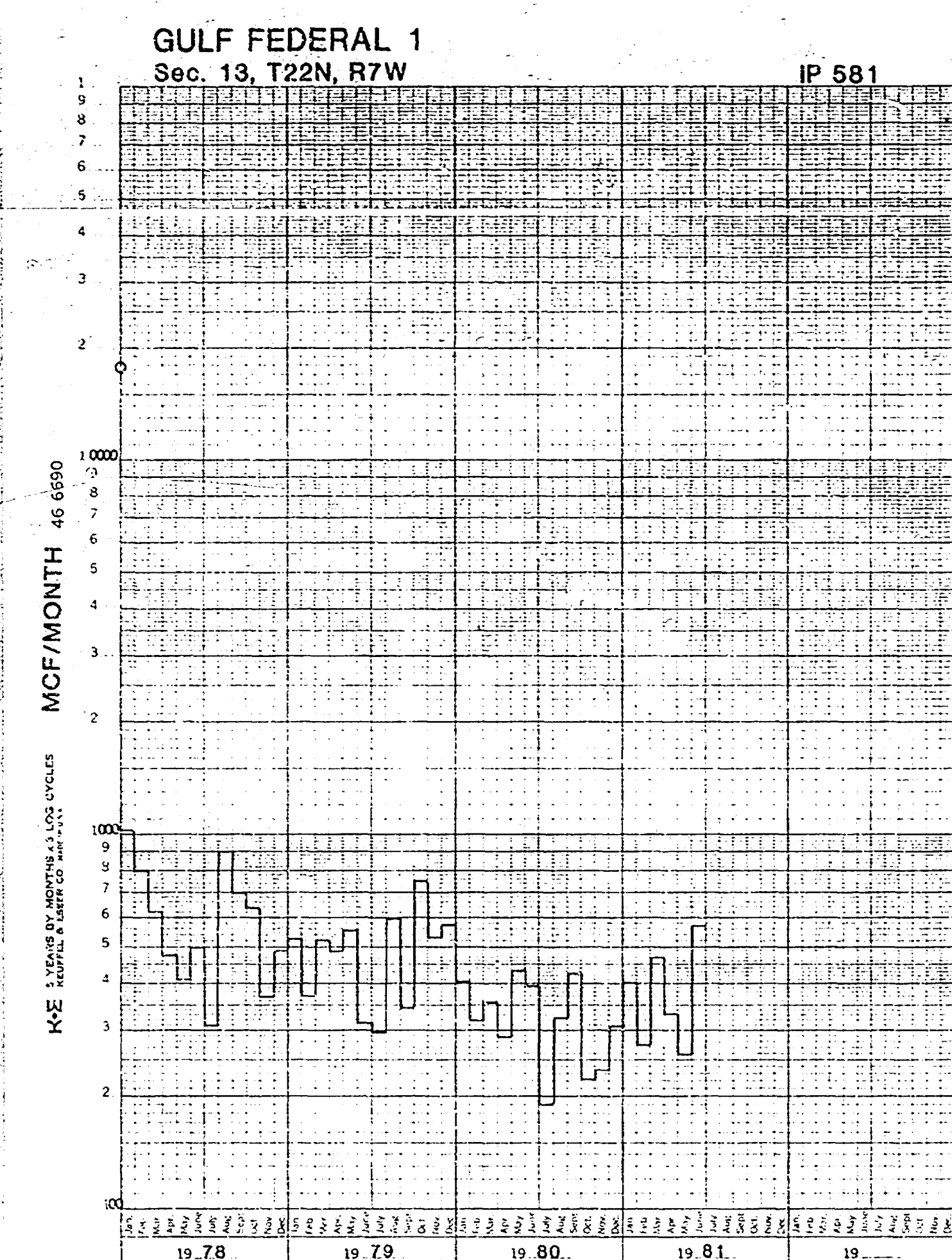




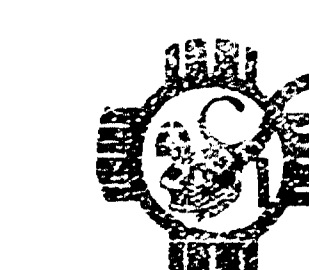
U.S. GEOLOGICAL SURVEY



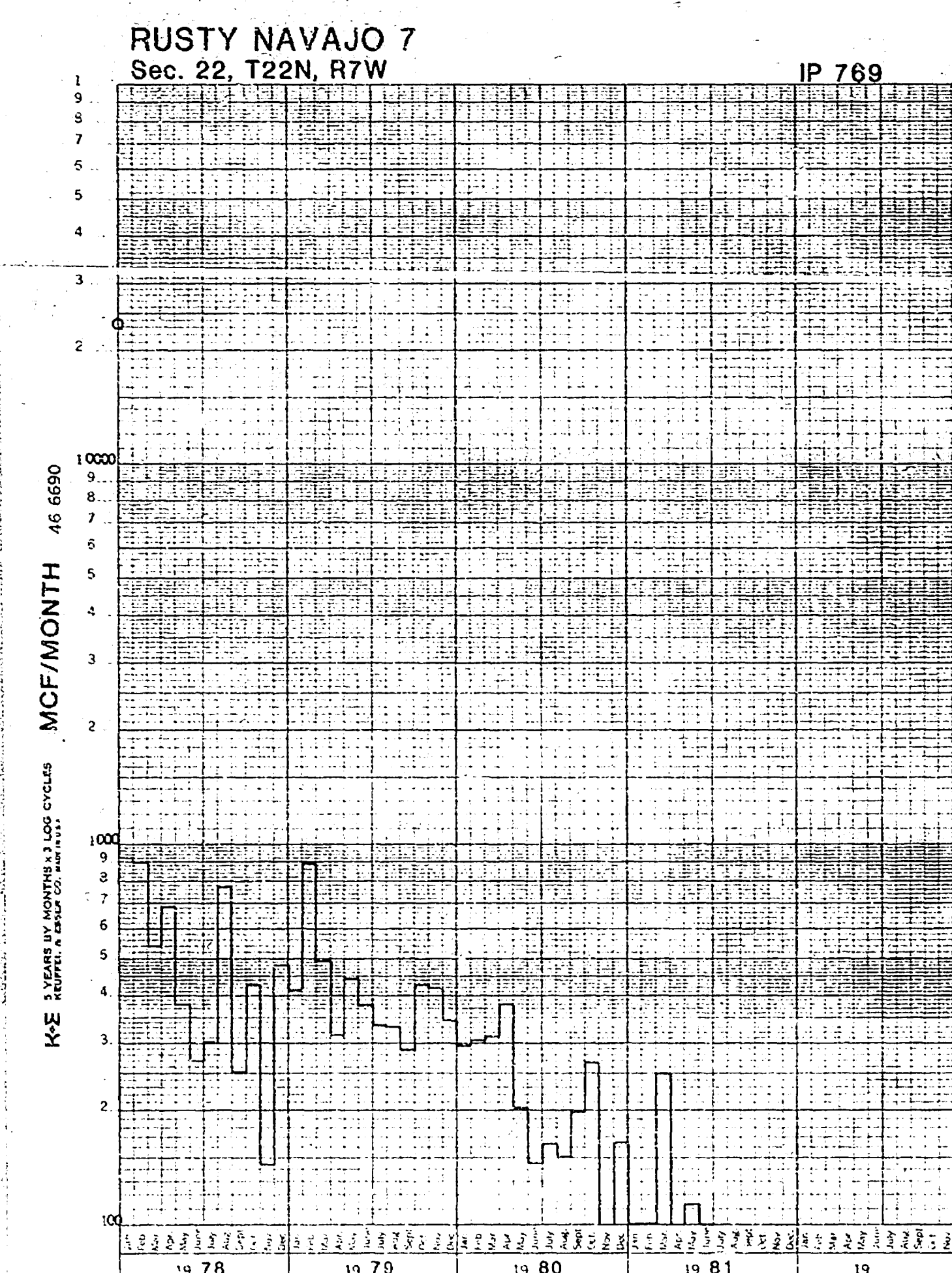
BEST AVAILABLE COPY



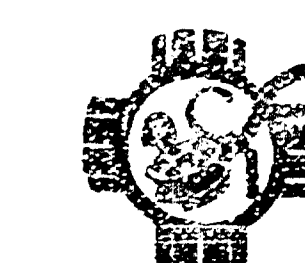
W.M.C. MICHAELIS



NOT AVAILABLE COPY



U.S. GEOLOGICAL SURVEY



RESTRICTION CLAY

